USER'S GUIDE

BOXLIGHT CP-13t

BOXLIGHT®

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INFORMATION TO THE USER

NOTE : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

TO THE OWNER

As the owner of a new Boxlight CP-13t, you are probably eager to try out your new projector. Before you do, we suggest that your spend a little time reading this manual to familiarize yourself with the operating procedures so that you will receive maximum satisfaction from the many features included in your new projector.

This owner's manual will acquaint you with your projector's features. Reading it will help us too. Through the years, we have found that many service requests were not caused by problems with our projectors. They were caused by problems that could have been prevented, if the owner had followed the instructions in the manual.

You can often correct operating problems yourself. If your projector fails to work properly, see "TROUBLESHOOTING" section on pages 44 ~ 45 and try the solution marked for each problem.

SAFETY PRECAUTIONS

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This Boxlight CP-13t has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature.

This projector produces intense light from the projection lens. Do not stare directly into the lens as possible eye damage could result. Be especially careful that children do not stare directly into the beam.

The Remote Control Unit, supplied to this projector, emits the laser beam as the Laser Pointer function from the Laser Light Window while pressing the LASER button (for 1 minute). Do not look into the Laser Light Window or shine the laser beam on yourself or other people. Eye damage may result.

This projector should be set in the way indicated. If not, It may result in fire hazard.

If the projector will not be used for an extended time, unplug the projector from the power outlet.

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE EXCEPT LAMP REPLACEMENT. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

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IMPORTANT SAFETY INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Do not use attachments not recommended by the manufacturer as they may cause hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...

Slots and openings in the back and bottom of the cabinet are provided for ventilation, to insure reliable operation of the equipment and to protect it from overheating.

The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a book case unless proper ventilation is provided.

This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

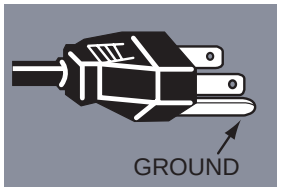
Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power cord or plug is damaged or frayed.
b. If liquid has been spilled into the projector.
c. If the projector has been exposed to rain or water.
d. If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
e. If the projector has been dropped or the cabinet has been damaged.
f. When the projector exhibits a distinct change in performance-this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.



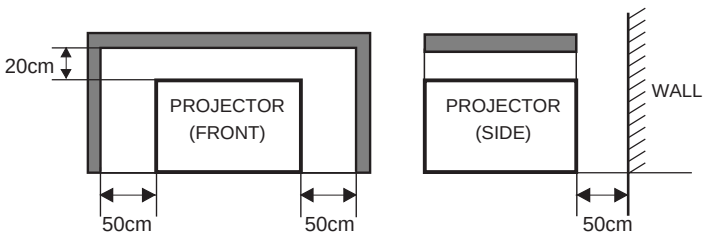
This projector is equipped with a grounding type AC line plug. Should you be unable to insert the plug into the outlet, contact your electrician. Do not defeat the safety purpose of this grounding type plug.

Follow all warnings and instructions marked on the projectors.

For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power line surges.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

If the projector is to be built into a compartment or similarly enclosed, the minimum distances must be maintained.
Do not cover the ventilation slot on the projector.
Heat build-up can reduce the service life of your projector, and can also be dangerous.



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FEATURES AND DESIGN

This Multimedia Projector is designed with the most advanced technology for portability, durability, and ease of use. The projector utilizes built-in multimedia features, a palette of 16.77 million colors, and matrix liquid crystal display (LCD) technology.

◆ Compatibility

This projector is compatible with many different types of personal computers and video devices, including;

- IBM-compatible computers, including laptops, up to 1024 x 768 resolution.
- Apple Macintosh and PowerBook computers up to 1024 x 768 resolution.
- Various video equipment using any of the world wide video standards, including NTSC, NTSC4.43, SECAM, PAL, PAL-M and PAL-N.

◆ Image Resolution

Picture Image of the computer is projected in the resolution of 800 x 600 and it is provided just as appearing on your computer's monitor. Screen resolutions between 800 x 600 and 1024 x 768 are compressed to 800 x 600, and this projector cannot display screen resolutions above 1024 x 768. If your computer's screen resolution is higher than 1024 x 768, reset it to a lower resolution before you connect the projector.

◆ Portability

This projector is quite compact in size and weight. Having a sophisticated shape like an attaché case with a retractable carrying handle, the projector will help you make powerful presentation wherever you go.

◆ Automatic Multiscanning System

This projector automatically tune to the most personal computers currently distributed by simply connecting. It is free from complicated adjustments to project picture images from PC.

◆ Multilanguage Menu Display

Operation menu is displayed in; English, Deutsch, Français, Italiano, Español, or Japanese

◆ PC CARD SLOT

This projector has the PC CARD SLOT for easier presentation. Pictures can be projected just by inserting a memory card including image data and the presentation data can be edited by the software "Media Card Imager" (supplied) easily. Refer to the pages 32 ~ 39 and the Owner's Manual for Media Card imager for operations.

◆ Laser Pointer Function

The Remote Control Unit of this projector has the Laser Pointer function providing convenience and smartness for your presentations.

◆ Other Features

This projector has Motor Zoom/Focus, No Show, Picture Freeze, Keystone and Mute functions. And the Air Pad Remote Control is equipped.

◆ Accessories

This projector comes with the parts listed below. Check to make sure all are included. If any part is missing, contact Boxlight immediately.

- Owner's Manual.
- AC Power Cord.
- Wireless Remote Control Unit.
- Batteries for Remote Control Unit.
- VGA Cable.
- Control Cable for PS/2 Port.
- Media Card Imager for Windows 95 (CD-ROM) and Owner's Manual for this software.
- SmartMedia and PC Card Adapter.
- Lens Cover.
- Dust Cover.

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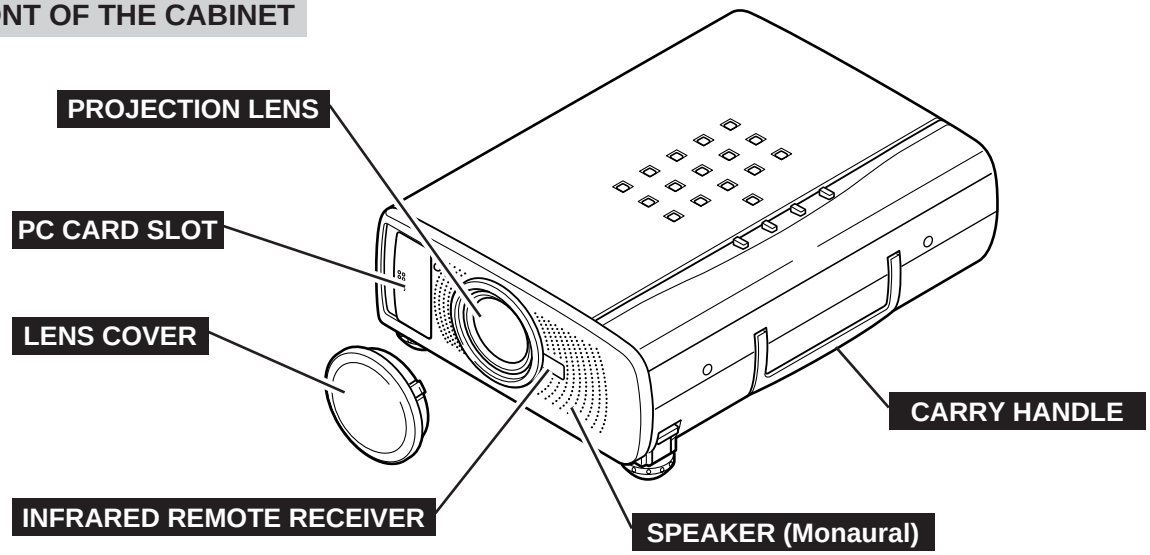
NAME OF EACH PART OF THE PROJECTOR

FRONT OF THE CABINET



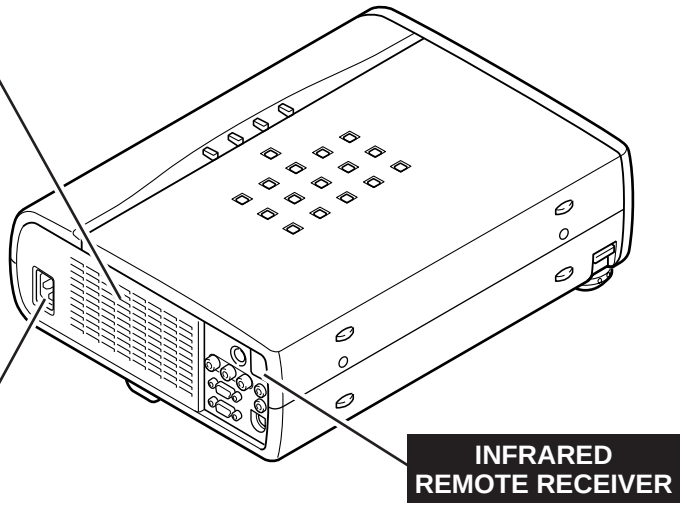
BACK OF THE CABINET

EXHAUST VENT

HOT AIR EXHAUSTED !

Air blown from the exhaust vent is hot. When using or installing the projector, following attention should be taken.

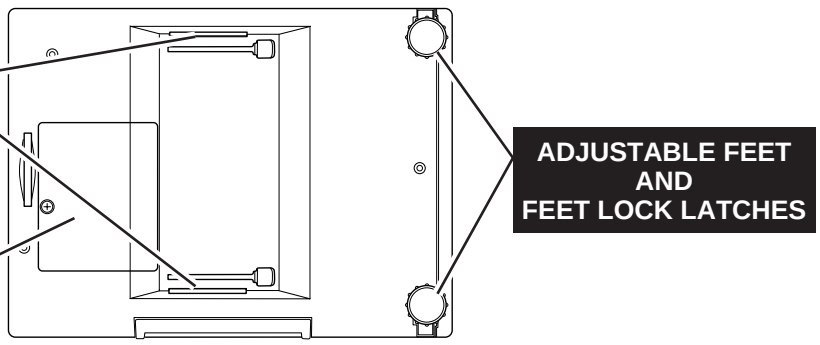
- Do not put a flammable object near this part.
- Keep heat-sensitive objects away from the exhaust vent.
- Do not touch this part especially screws and metallic parts. This part will become hot while the projector is used.



BOTTOM OF THE CABINET

AIR INTAKE VENTS

These Air Intake Vents should not be blocked.



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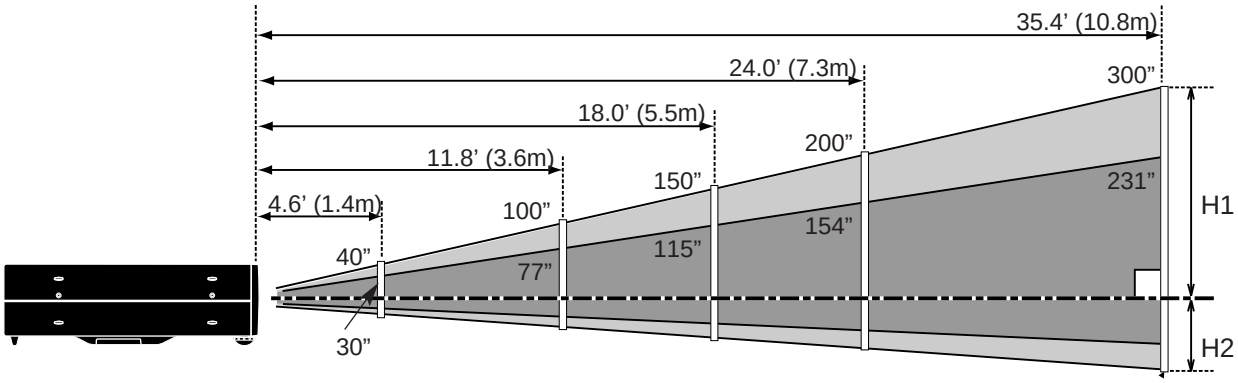
SETTING-UP THE PROJECTOR

POSITIONING THE PROJECTOR

- This projector is basically designed to project on a flat projection surface.
- The projector can be focused from 4.6'(1.4m) ~ 35.4'(10.8m).
- Refer to the figure below to adjust the screen size.



Screen Size (W x H) mm	30"	60"	100"	150"	200"	300"
	610 x 457	1219 x 914	2032 x 1524	3048 x 2286	4064 x 3048	6096 x 4572
Height (H1)	17.1"(435mm)	34.3"(870mm)	57.1"(1451mm)	85.7"(2177mm)	114.3"(2903mm)	171.4"(4354mm)
Height (H2)	0.9"(22mm)	1.7"(44mm)	2.9"(73mm)	4.3"(109mm)	5.7"(145mm)	8.6"(218mm)

ROOM LIGHT

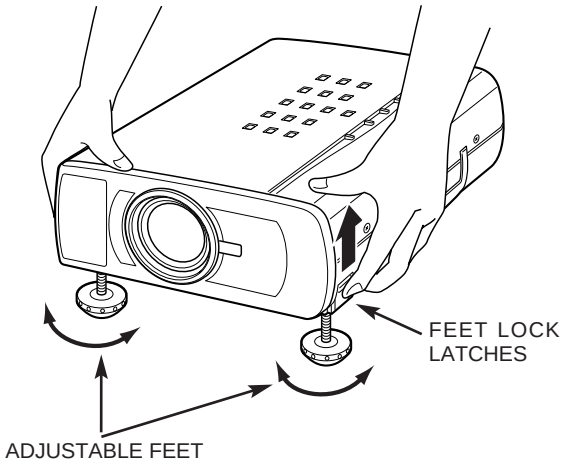
The brightness in the room has a great influence on the picture quality. It is recommended to limit ambient lighting in order to provide the best image.

ADJUSTABLE FEET

Picture tilt and projection angle can be adjusted by rotating the ADJUSTABLE FEET. Projection angle can be adjusted to 10 degrees.

1. Lift the front of the projector and pull the FEET LOCK LATCHES on both sides of the projector.
2. Release the FEET LOCK LATCHES to lock the ADJUSTABLE FEET and rotate the ADJUSTABLE FEET for fine tune of the position and the tilt.
3. To shorten the ADJUSTABLE FEET, lift the front of the projector and pull and undo the FEET LOCK LATCHES.

The position and the keystone distortion of the image can be also adjusted with the Menu Operation. (Refer to pages 21, 29, 30 and 37.)



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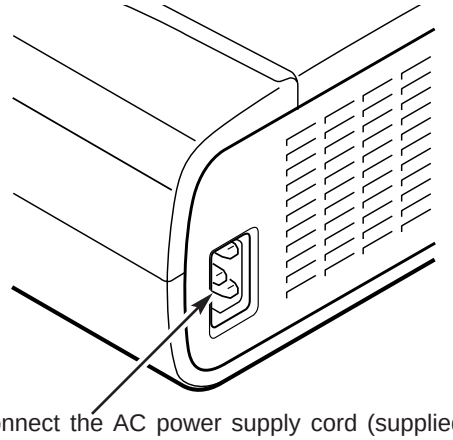
CONNECTING THE AC POWER CORD

This projector uses nominal input voltages of 100-120 V AC or 200-240 V AC. The projector automatically selects the correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if your are not sure of the type of power supply being in use. Connect the projector with the peripheral equipment before turning the projector on. (Refer to pages 10 ~ 13 for connection.)

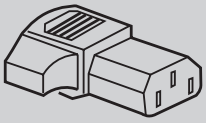


Connect the AC power supply cord (supplied) to the projector.
The socket-outlet must be near this equipment and must be easily accessible.

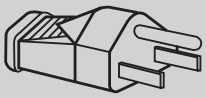
CAUTION

For the safety, unplug the AC Power Cord when the appliance is not used.
When this projector is connected to the outlet with the AC Power Cord, the appliance is in Stand-by Mode and consumes a little electric power.

Projector side (Female)



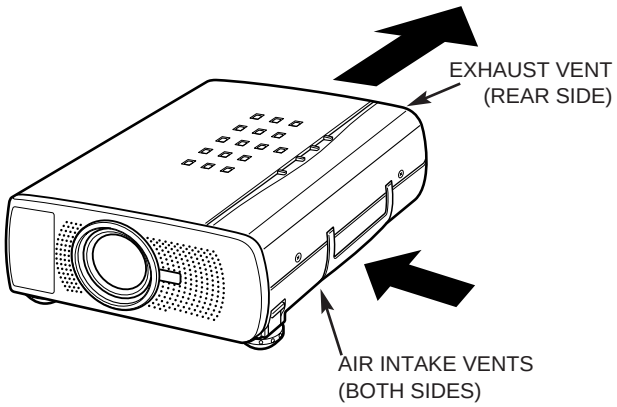
AC outlet side (Male)



VENTILATION

This projector is equipped cooling fans for protection from overheating. Pay attention to the following to ensure the ventilation and avoid a possible risk of fire and malfunction.

- Do not cover the vent slot.
- Keep the rear grill at least one meter away from any object.
- Make sure that there is no object on both sides of the projector. Those obstacles may prevent the projector from taking the cooling air through the side Air Intake Vent Slots.



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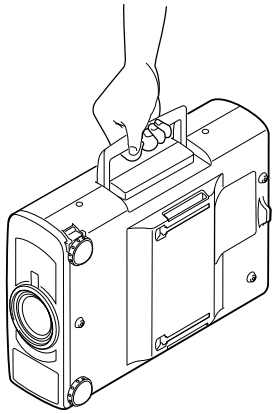
MOVING THE PROJECTOR

Use the Carry Handle when moving the Projector.
When moving the projector, replace the lens cover and rotate the feet fully clockwise (to shorten the feet) to prevent from damage to the lens and the cabinet.

When this projector is not used for the extended period, replace the lens cover, tuck the Adjustable Feet and apply the dust cover supplied to this projector.



CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

- Do not drop or give a shock to the projector, otherwise damages or malfunctions may result.
- When carrying the projector, use a carrying case recommended by Boxlight.
- Do not transport the projector by using a courier or transport service in an unsuitable transport case. This may cause damage to the projector. To transport the projector through a courier or transport service, use a case recommended by Boxlight.
- For carrying or transportation cases, contact a Boxlight at 1-800-762-5757 or 360-779-7901.

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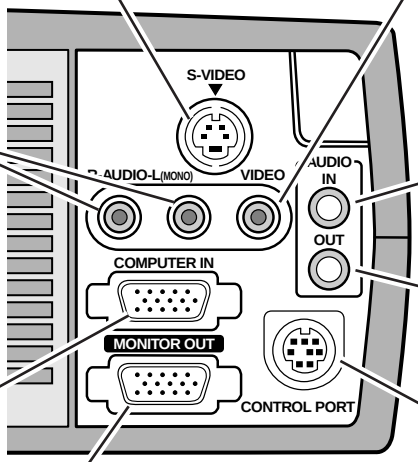
TERMINALS OF THE PROJECTOR

S-VIDEO INPUT JACK
Connect the S-VIDEO output from the video equipment to this terminal.
(Refer to P11.)

AUDIO INPUT JACKS
Connect the audio outputs from the video equipment to these terminals.
(Refer to P11.)
- When the audio output is monaural, connect it to the Left jack.

COMPUTER INPUT TERMINAL
Connect the computer output to this terminal.
(Refer to P12, 13.)

MONITOR OUTPUT TERMINAL
This terminal outputs the signal from the COMPUTER IN terminal. Connect to the monitor to this terminal.
(Refer to P12, 13.)



VIDEO INPUT JACK
Connect the video output from the video equipment to this terminal.
(Refer to P11.)

COMPUTER AUDIO INPUT JACK
Connect the audio output from the computer to this terminal.
(Refer to P12, 13.)

AUDIO OUTPUT JACK (STEREO)
Connect the audio amplifier to this terminal.
(Refer to P12, 13.)

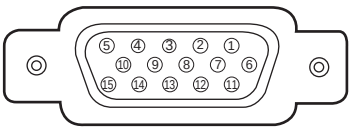
CONTROL PORT CONNECTOR
When controlling the computer with the Remote Control of this projector, connect the mouse port of your personal computer to this terminal. It is also used for write on or read from the data of the PC CARD SLOT in MCI mode.
(Refer to P12, 13, 35.)

COMPUTER INPUT / MONITOR OUTPUT TERMINAL

Terminal : HDB15-PIN

Connect the display output terminal of the computer to COMPUTER INPUT with the VGA Cable (supplied). And connect the monitor to MONITOR OUTPUT with the monitor cable (not supplied). When connecting the Macintosh computer, the MAC Adapter (not supplied) is required.

Pin Configuration



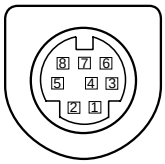
1	Red Input	9	Non Connect
2	Green Input	10	Ground (Vert.sync.)
3	Blue Input	11	Sense 0
4	Sense 2	12	Sense 1
5	Ground (Horiz.sync.)	13	Horiz. sync.
6	Ground (Red)	14	Vert. sync.
7	Ground (Green)	15	Reserved
8	Ground (Blue)		

CONTROL PORT CONNECTOR

Terminal : Mini DIN 8-PIN

Connect control port (PS/2, Serial or ADB port) on your computer to this terminal with the Control Cable (the Control Cable for PS/2 port is supplied).

Pin Configuration



	PS/2	Serial	ADB
1	-----	R X D	-----
2	CLK	-----	ADB
3	DATA	-----	-----
4	GND	GND	GND
5	-----	RTS	-----
6	-----	T X D	-----
7	GND	GND	-----
8	-----	GND	GND

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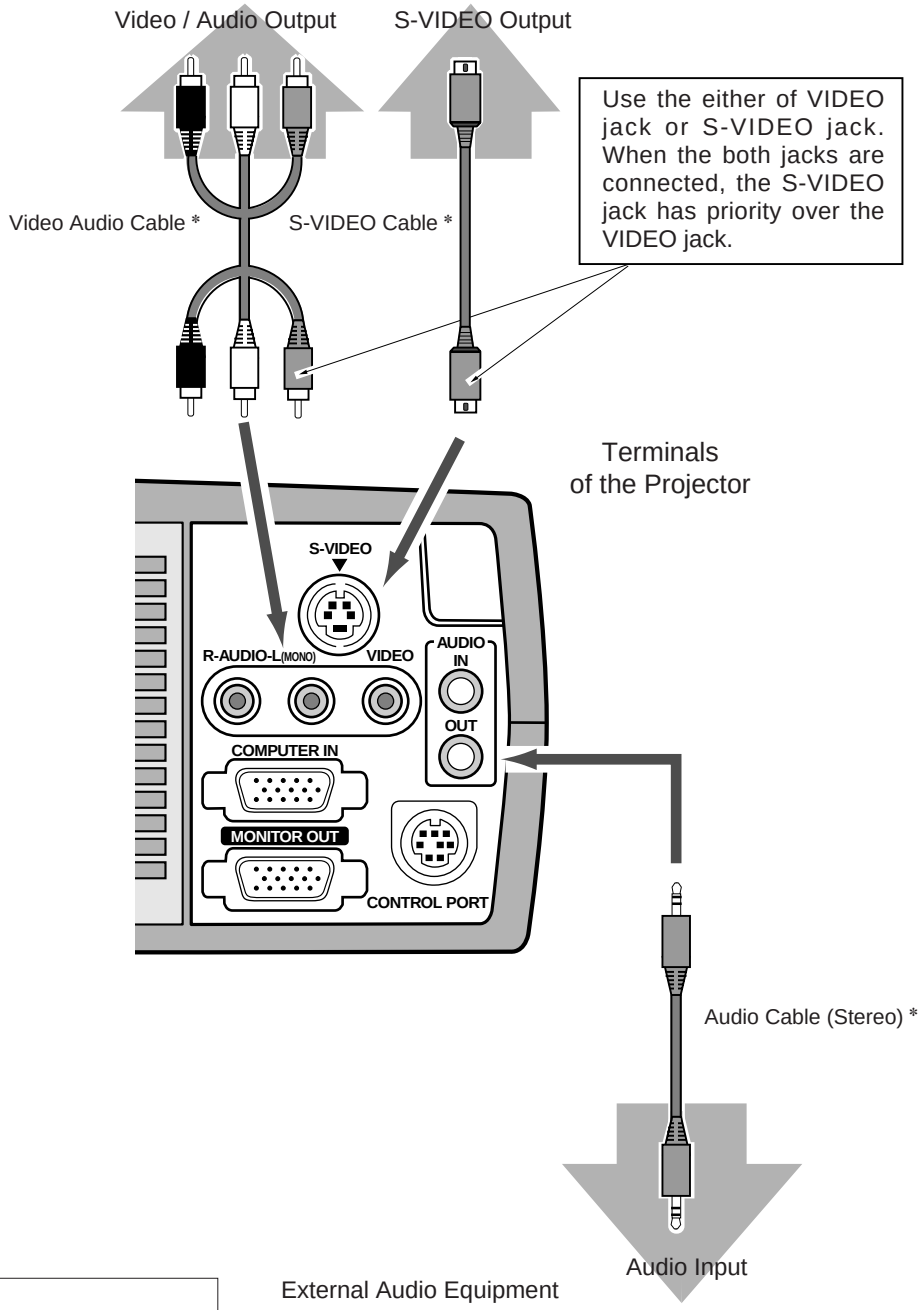
CONNECTING TO THE VIDEO EQUIPMENT

Used cables for connection

- VIDEO CABLE *
- S-VIDEO CABLE *
- AUDIO CABLE (stereo) *

* These cables are not supplied with this projector.



NOTE :
When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet. Turn the projector and peripheral equipment on before the computer is switched on.

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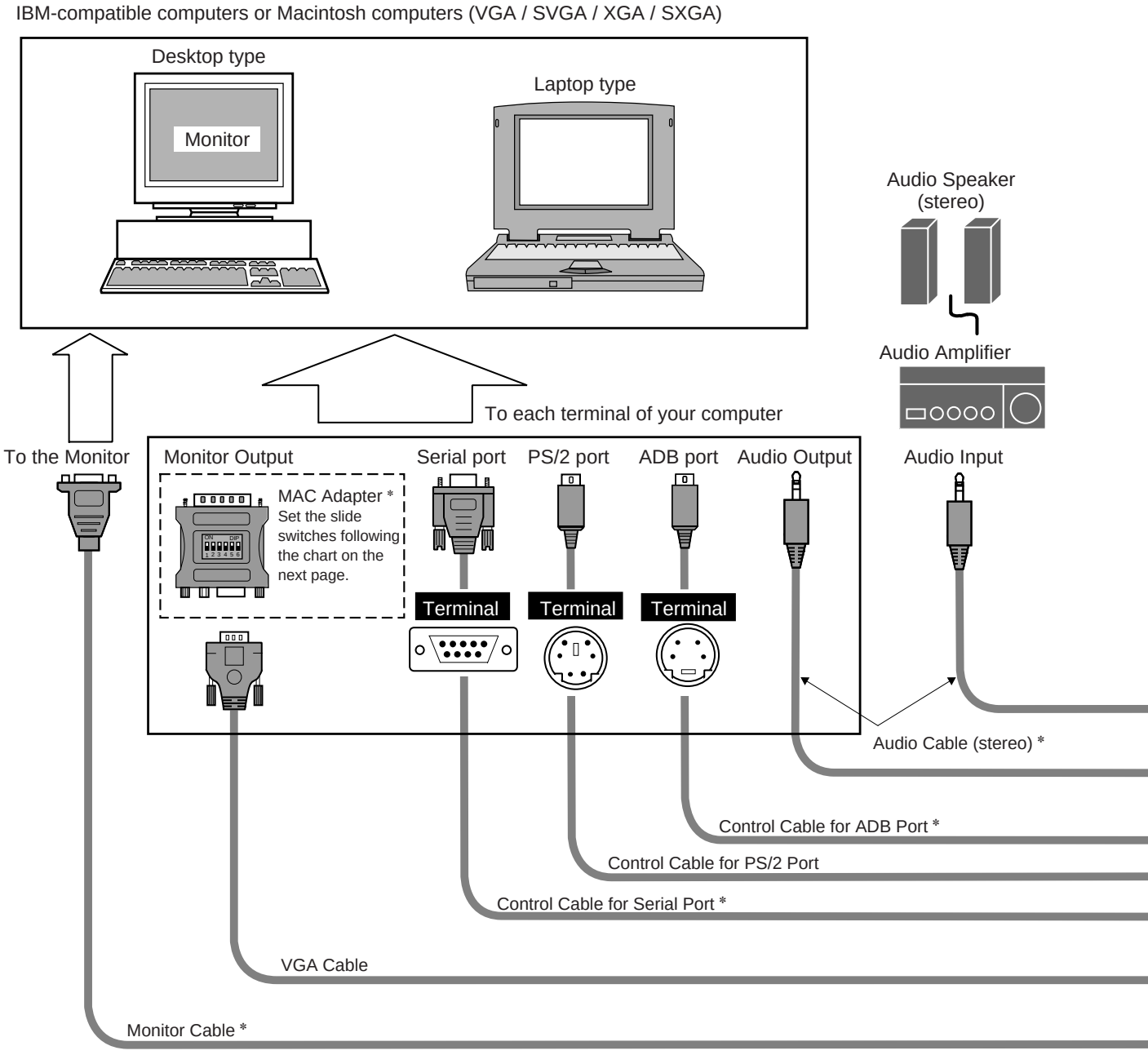
CONNECTING TO THE COMPUTER

To connect with the computer, refer to the figure below.

Used cables for connection

- VGA CABLE
- CONTROL CABLE FOR PS/2 PORT
- CONTROL CABLE FOR SERIAL PORT,or ADB PORT *
- MAC ADAPTER *
- MONITOR CABLE *
- PC AUDIO CABLE (stereo) *

* These cables are not supplied with this projector.



NOTE :
When connecting the cable, the power cords of both the projector and the external equipment should be disconnected from AC outlet. Turn the projector and peripheral equipment on before the computer is switched on.

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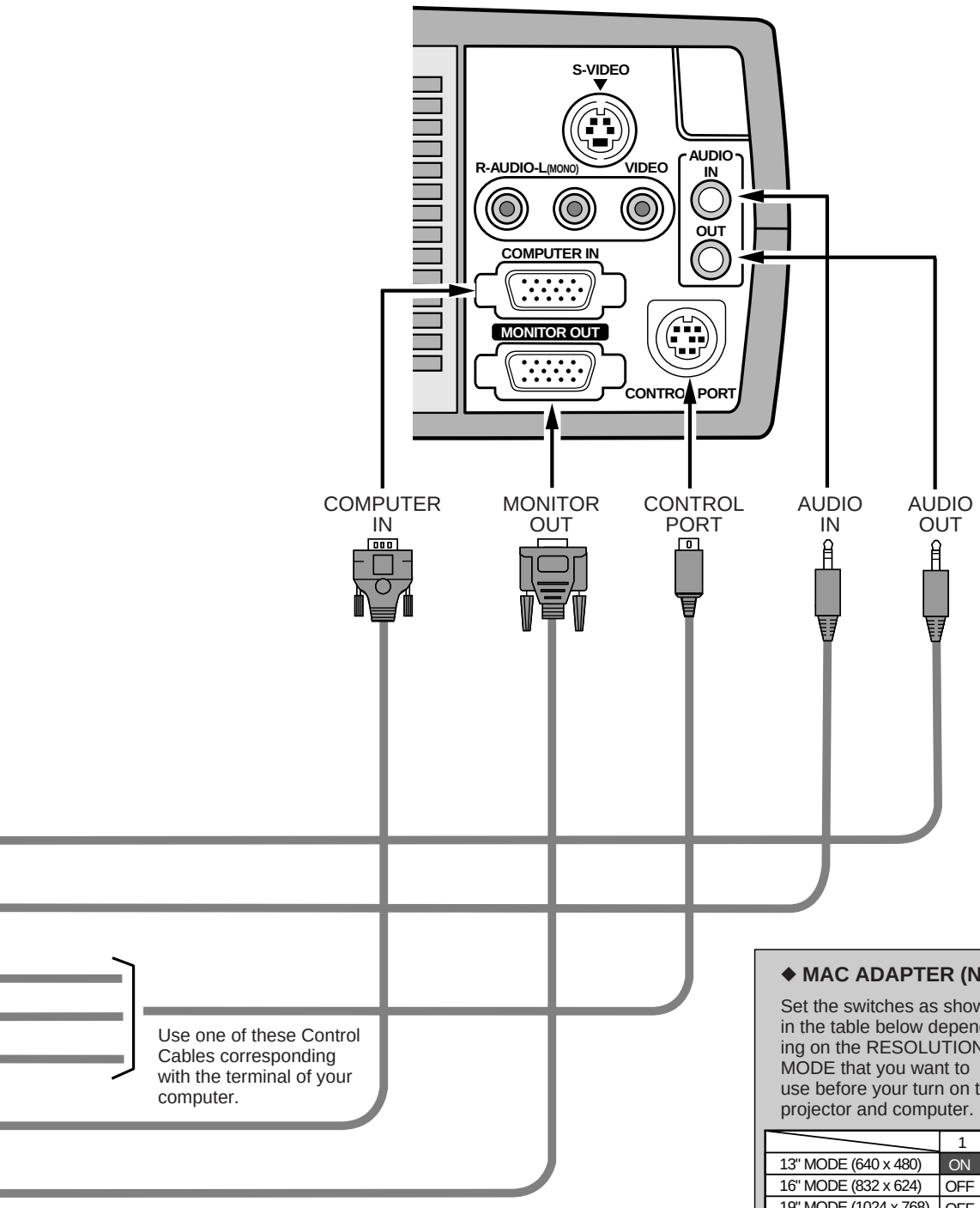
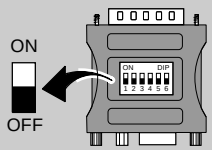


Use one of these Control Cables corresponding with the terminal of your computer.

◆ **MAC ADAPTER (Not supplied)**

Set the switches as shown in the table below depending on the RESOLUTION MODE that you want to use before your turn on the projector and computer.



	1	2	3	4	5	6
13" MODE (640 x 480)	ON	ON	OFF	OFF	OFF	OFF
16" MODE (832 x 624)	OFF	ON	OFF	ON	OFF	OFF
19" MODE (1024 x 768)	OFF	ON	ON	OFF	OFF	OFF

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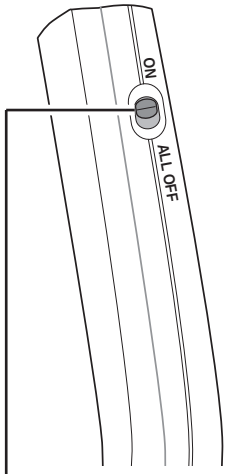
OPERATION OF THE REMOTE CONTROL

Left Side



ALL-OFF SWITCH

When using the Remote Control Unit, turn this switch to “ON” and turn it “ALL OFF” when it is not used.

VIDEO BUTTON

Used to select VIDEO source. (P30)

COMPUTER / MCI BUTTON

Used to select source either COMPUTER or MCI mode. (P23, 33)

MENU BUTTON

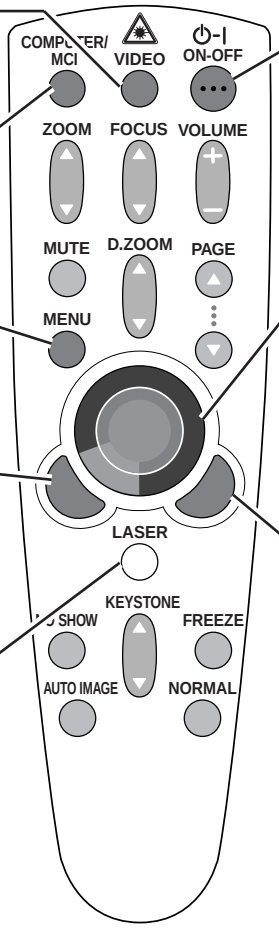
Used to call MENU operation. (P17-19)

SELECT BUTTON

Used to execute the item selected or to expand the image in DIGITAL ZOOM mode. (P29, 37)
It is also used as a PC mouse in Wireless Mouse Operation. (P41)

LASER BUTTON

Used to operate laser pointer function. The laser beam is emitted while pressing this button within 1 minute. When using the laser pointer for more than 1 minute, release the button and press it again.



POWER ON-OFF BUTTON

Used to turn the projector on or off. (P20)

POINT BUTTON

Used to move the pointer on the MENU, to adjust the item, or to pan the image in DIGITAL ZOOM mode. (P29, 37)
It is also used as a PC mouse in Wireless Mouse Operation. (P41)

✻ When pressing the center of this button, it works as the SELECT button.

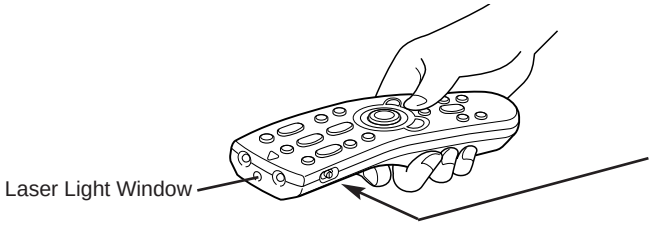
RIGHT CLICK BUTTON

Used to compress the image in DIGITAL ZOOM mode. (P29, 30, 37)
It is also used as a PC mouse in Wireless Mouse Operation. (P41)

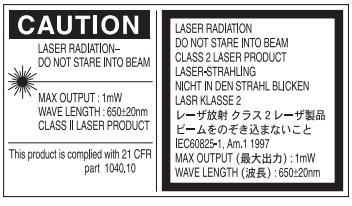
LASER POINTER FUNCTION

This remote control emits a laser beam as the Laser Pointer from the Laser Light Window. When the LASER button is pressed, the laser light goes on. And when the button is pressed more than 1 minute or the button is released, light goes off. Laser light is emitted with the RED light which tells the laser beam being emitted.
The laser emitted is a class II laser; therefore, do not look into the Laser Light Window or shine the laser beam on yourself or other people. The three marks bellow are the caution labels for the laser beam.

CAUTION : Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



These caution labels are put on the remote control.



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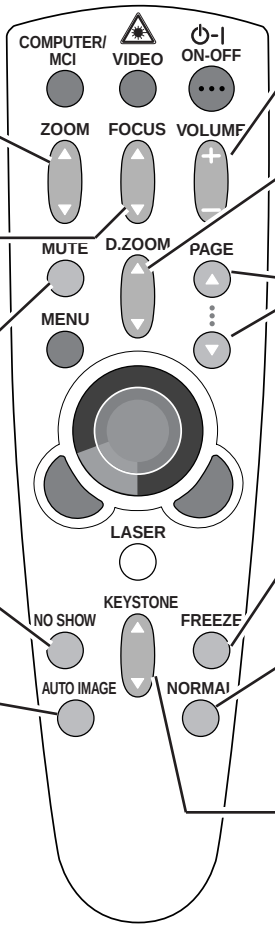


ZOOM BUTTON
Used to adjust zoom. (P21)

FOCUS BUTTON
Used to adjust focus. (P21)

MUTE BUTTON
Used to mute sound.(P22)

NO SHOW BUTTON
Used to turn the picture into black image. (P22)

AUTO IMAGE BUTTON
Use to operate AUTO IMAGE function. (P28)

VOLUME BUTTON
Used to adjust volume. (P22)

D.ZOOM BUTTON
Used to turn the projector into DIGITAL ZOOM mode. (P29, 37)

PAGE BUTTONS
Used to move to next / previous page of the data in memory card. This buttons are activated in MCI mode only. (P34)

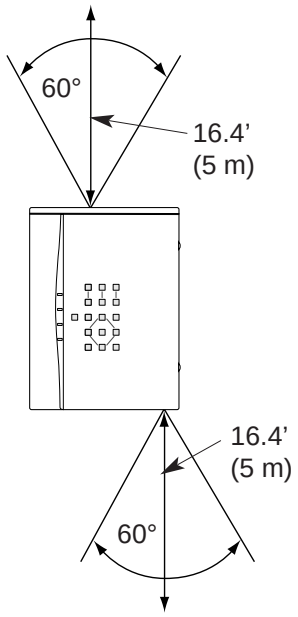
FREEZE BUTTON
Used to stop the picture. (P22)

NORMAL BUTTON
Used to reset to normal picture adjustment preset by the factory. (P27, 31, 36)

KEY STONE BUTTON
Used to correct the key stone distortion. (P22, 29, 30, 37)

Operating Range

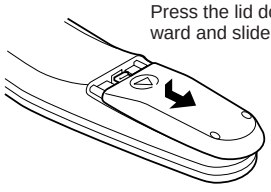
Point the remote control toward the projector (Receiver Window) when pressing the buttons. Maximum operating range for the remote control is about 16.4' (5m) and 60° front and rear of the projector



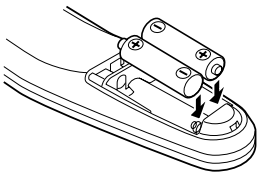
REMOTE CONTROL BATTERIES INSTALLATION

1 Remove the battery compartment lid.

Press the lid downward and slide it.

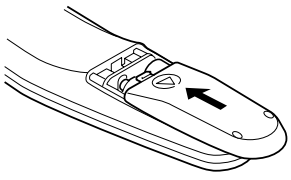


2 Slide the batteries into the compartment.



Two AA size batteries
For correct polarity (+ and –), be sure the battery terminals are in contact with the pins in the compartment.

3 Replace the compartment lid.



To insure safe operation, please observe the following precautions :

- Use (2) AA, UM3 or R06 type alkaline batteries.
- Replace two batteries at the same time.
- Do not use a new battery with a used battery.
- Avoid contact with water or liquid.
- Do not expose the Remote Control Unit to moisture, or heat.
- Do not drop the remote control unit.
- If batteries have leaked on the remote control, carefully wipe the case clean and load new batteries.

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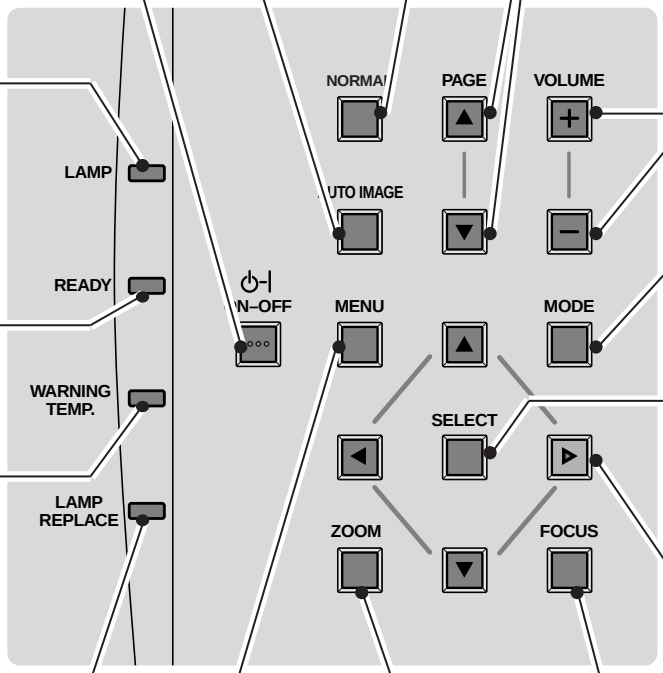
TOP CONTROLS AND INDICATORS



AUTO IMAGE BUTTON

Used to operate AUTO IMAGE function. (P28)

POWER ON–OFF BUTTON

Used to turn the projector on or off. (P20)

LAMP INDICATOR

This indicator is lit in dim when the projector is turned on. And the light is brightened when the projector is in stand-by mode.

READY INDICATOR

This indicator is lit in green when the projector is ready to be turned on.

WARNING TEMP. INDICATOR

This indicator flashes red when internal projector temperature is too high. (P42)

LAMP REPLACE INDICATOR

This indicator turns to yellow when the life of the projection lamp draws to an end. (P43)

MENU BUTTON

Used to open or close the MENU operation. (P17, 19)

NORMAL BUTTON

Used to reset to normal picture adjustment preset by factory. (P27, 31, 36)

PAGE BUTTONS

Used to move to the next / previous page of the data in the memory card plugged into PC CARD SLOT. These buttons are used to stop or resume AUTO-PLAY function. Page buttons are activated in MCI mode. (P34.)

VOLUME BUTTONS

Used to adjust volume. (P22)

MODE BUTTON

Used to select input source either Computer, Video or MCI mode. (P23, 30, 33)

SELECT BUTTON

Used to execute the item selected. It is also used to expand the image in DIGITAL ZOOM mode. (P29, 37)

POINT BUTTONS

Used to select an item and adjust the value on the MENU. It is also used to pan the image in DIGITAL ZOOM mode. (P29, 37)

FOCUS BUTTONS

Used to select focus adjust. (P21)

ZOOM BUTTONS

Used to select zoom adjust. (P21)

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OPERATING ON-SCREEN MENU

HOW TO OPERATE ON-SCREEN MENU

You can control and adjust this projector through ON-SCREEN MENU. Refer to the following pages to operate the each adjustment on the ON-SCREEN MENU.

1 MOVING THE POINTER

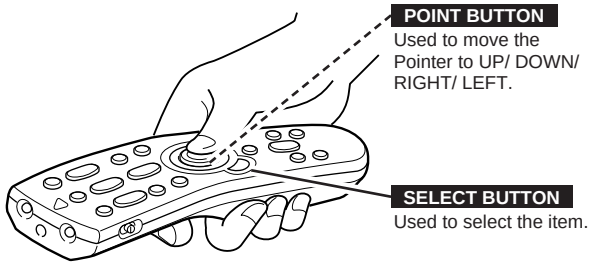
Move the pointer (see the NOTE below) by pressing POINT button(s) on the TOP CONTROL or the REMOTE CONTROL.

2 SELECT THE ITEM

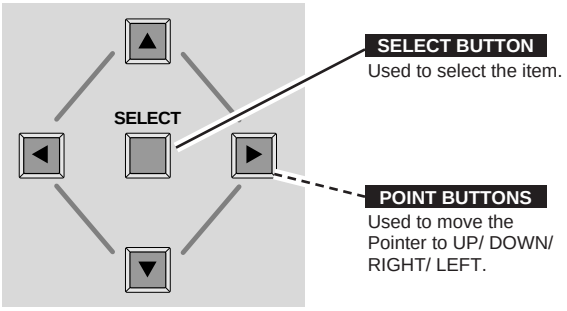
Select the item by pressing SELECT button.

NOTE : Pointer is the icon on the ON-SCREEN Menu to select the item. See the figures on the section "FLOW OF ON-SCREEN MENU" below.

WIRELESS REMOTE CONTROL



TOP CONTROL



FLOW OF ON-SCREEN MENU

Display ON-SCREEN MENU

1 Press MENU button to display the ON-SCREEN MENU (MENU BAR). The red frame is the POINTER.

Select the Item

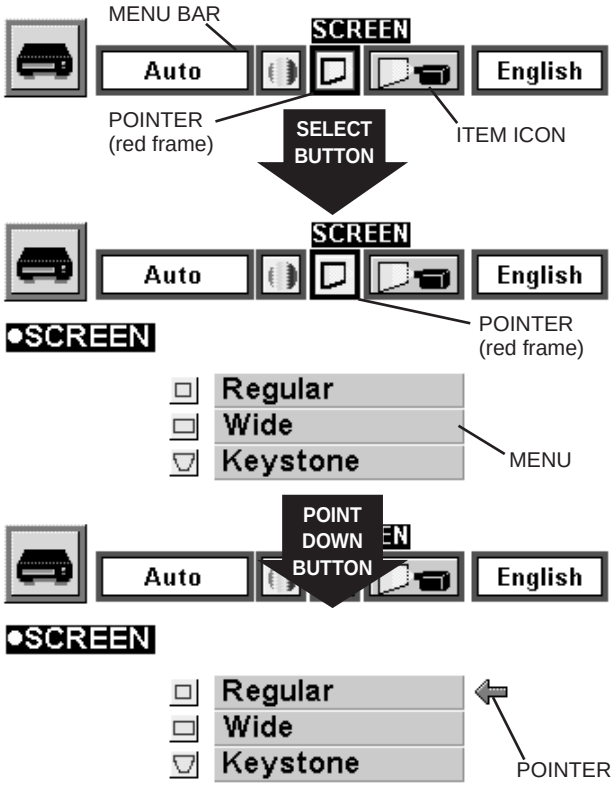
2 Move the POINTER (red frame) to the ITEM ICON that you want to select by pressing POINT RIGHT/ LEFT buttons.

3 Select the ITEM by pressing SELECT button. The dialog box of the ITEM appears.

Control and adjust through ON-SCREEN MENU

4 Move the POINTER downward by pressing POINT DOWN button. (The shape of POINTER become an arrow.)

5 Move the POINTER to the ITEM that you want to adjust and adjust the ITEM by pressing SELECT button.
Refer to the following pages for details of respective adjustments.



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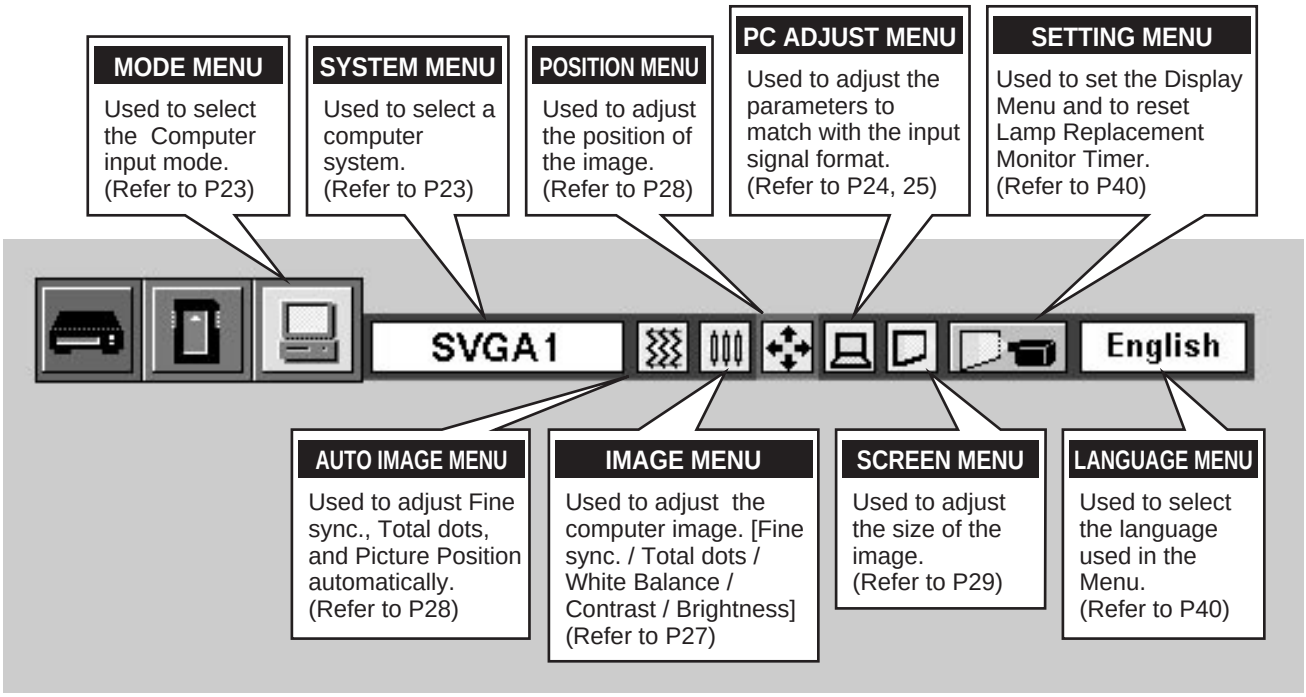
MENU BAR

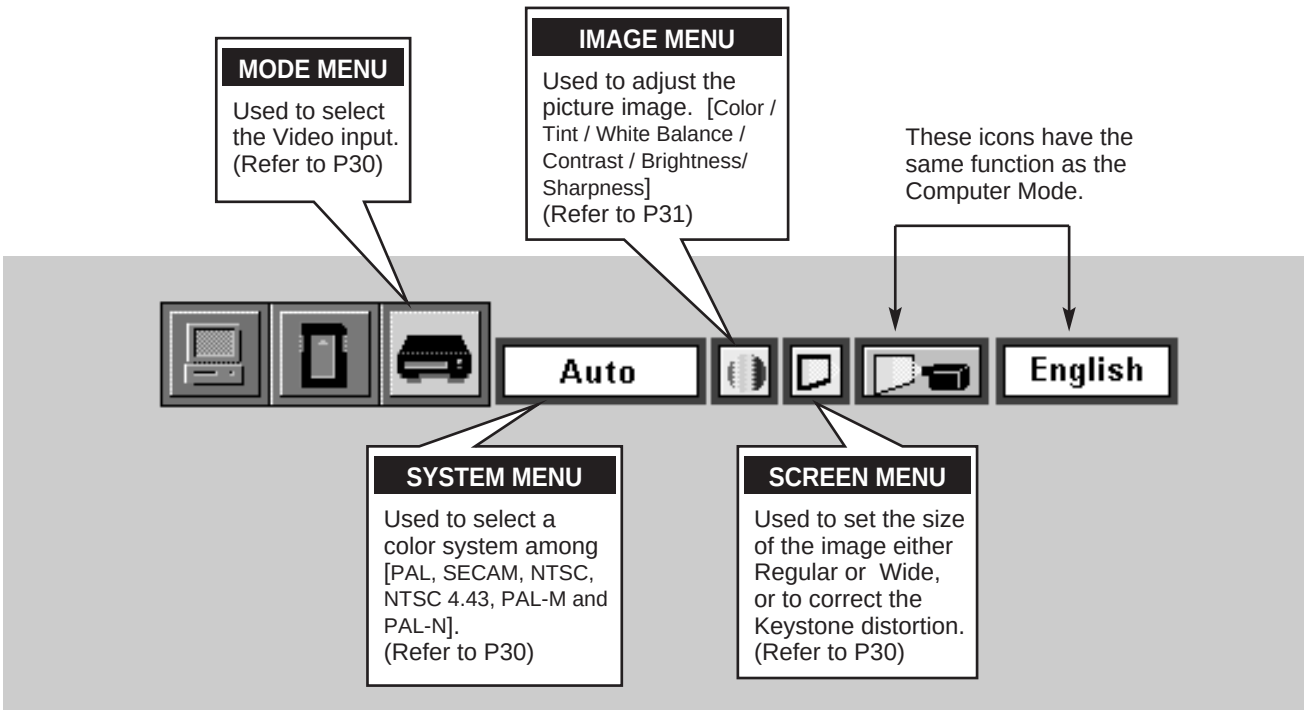
MENU BAR IN COMPUTER MODE

Press MENU BUTTON while being in Computer mode.


MODE MENU
Used to select the Computer input mode. (Refer to P23)
SYSTEM MENU
Used to select a computer system. (Refer to P23)
POSITION MENU
Used to adjust the position of the image. (Refer to P28)
PC ADJUST MENU
Used to adjust the parameters to match with the input signal format. (Refer to P24, 25)
SETTING MENU
Used to set the Display Menu and to reset Lamp Replacement Monitor Timer. (Refer to P40)
SVGA1
English
AUTO IMAGE MENU
Used to adjust Fine sync., Total dots, and Picture Position automatically. (Refer to P28)
IMAGE MENU
Used to adjust the computer image. [Fine sync. / Total dots / White Balance / Contrast / Brightness] (Refer to P27)
SCREEN MENU
Used to adjust the size of the image. (Refer to P29)
LANGUAGE MENU
Used to select the language used in the Menu. (Refer to P40)

MENU BAR IN VIDEO MODE

Press MENU BUTTON while being in Video mode.


MODE MENU
Used to select the Video input. (Refer to P30)
IMAGE MENU
Used to adjust the picture image. [Color / Tint / White Balance / Contrast / Brightness/ Sharpness] (Refer to P31)
These icons have the same function as the Computer Mode.
Auto
English
SYSTEM MENU
Used to select a color system among [PAL, SECAM, NTSC, NTSC 4.43, PAL-M and PAL-N]. (Refer to P30)
SCREEN MENU
Used to set the size of the image either Regular or Wide, or to correct the Keystone distortion. (Refer to P30)

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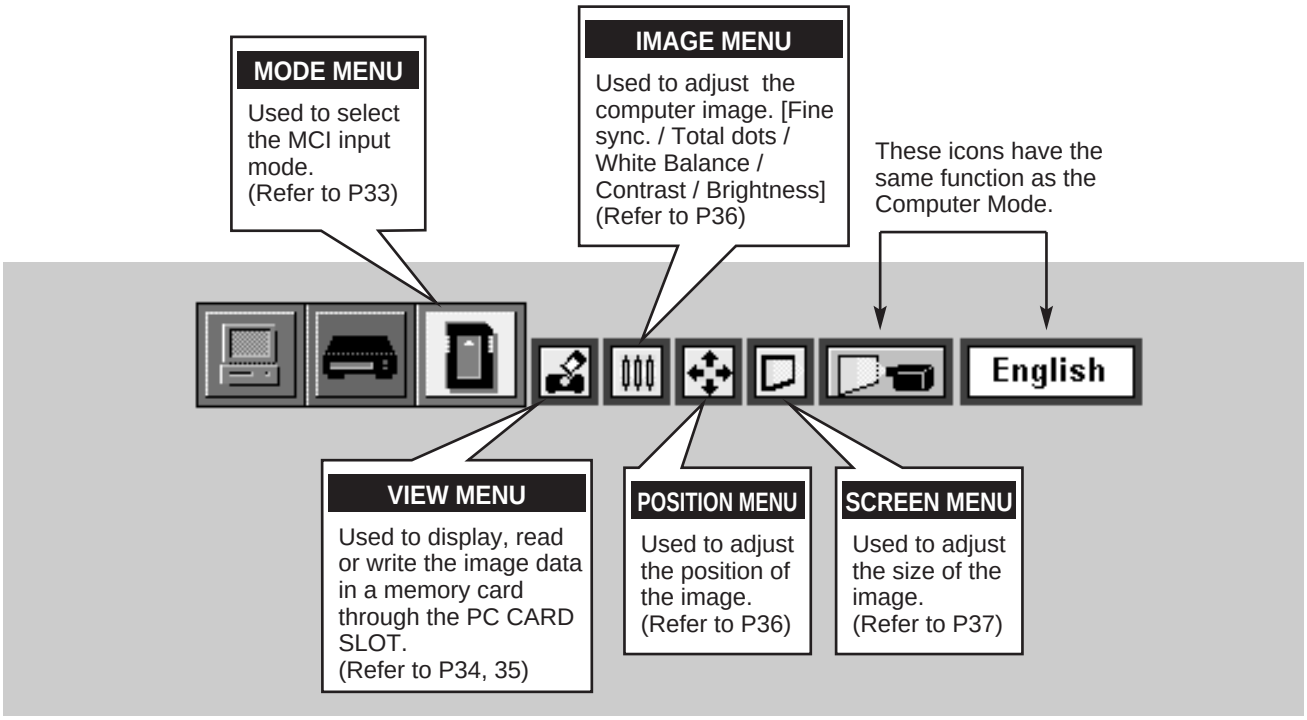
MENU BAR IN MCI MODE Press MENU BUTTON while being in MCI mode.


MODE MENU
Used to select the MCI input mode.
(Refer to P33)
IMAGE MENU
Used to adjust the computer image. [Fine sync. / Total dots / White Balance / Contrast / Brightness]
(Refer to P36)
These icons have the same function as the Computer Mode.
English
VIEW MENU
Used to display, read or write the image data in a memory card through the PC CARD SLOT.
(Refer to P34, 35)
POSITION MENU
Used to adjust the position of the image.
(Refer to P36)
SCREEN MENU
Used to adjust the size of the image.
(Refer to P37)

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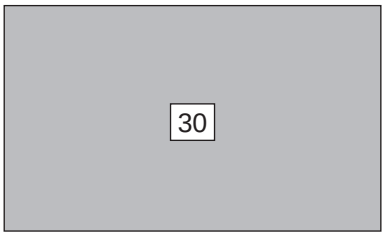
TURNING ON / OFF THE PROJECTOR

TURNING ON THE PROJECTOR

1. Complete the peripheral connections (with Computer, VCR, and etc.) before turning on the projector. (Refer to "CONNECTING TO THE PROJECTOR" on Pages 10~13 for connecting those equipment.

2. Connect the projector's AC power cord into a wall outlet. The LAMP indicator lights RED, and the READY indicator lights GREEN.

3. Press the power ON-OFF button on the Remote Control Unit or on the Top Control to ON. The LAMP POWER indicator dims, and the Cooling Fans start to operate. The Preparation Display appears on the screen and the count-down starts. The signal from the source appears after 30 seconds.



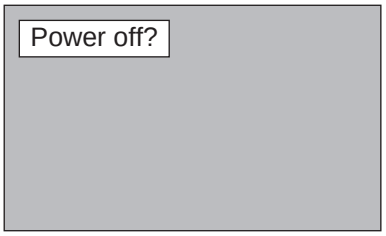
The Preparation Display disappears after 30 seconds.

TURNING OFF THE PROJECTOR

1. Press the power ON-OFF button on the Remote Control Unit or on the Top Control, and the message "Power off?" appears on the screen.

2. Press again the power ON-OFF button to turn off the projector. The LAMP indicator lights bright and the READY indicator turns off. The Cooling Fans operate for 90 seconds after the projector is turned off. (During this "Cooling Down" period, this appliance cannot be turned on.)

3. When the cooling the projector has finished, the READY indicator turns to green again and you can turn the projector on. After cooling down completely, disconnect the AC power cord.



The message disappears after 4 seconds.

TO MAINTAIN THE LIFE OF THE LAMP, ONCE YOU TURN IT ON, WAIT AT LEAST 5 MINUTES BEFORE TURNING IT OFF.

When the TEMPERATURE WARNING indicator flashes red, the projector is automatically turned off. Wait at least 5 minutes before turning the projector on again.

If the TEMPERATURE WARNING indicator continues to flash, follow procedures below:
1. Disconnect the AC power cord from the AC outlet.
2. Check the air filters for dust accumulation.
3. Clean the Air Filter. (See "AIR FILTER CARE AND CLEANING" section on page 42.)
4. Press the power ON-OFF button to ON.

If the TEMPERATURE WARNING indicator still continues to flash, call Boxlight at 1-800-762-5757 or 360-779-7901.

NOTE: The Cooling Fan may work for cooling while the projector is turned off. When the Cooling Fan is working, TEMPERATURE WARNING INDICATOR flashes red.

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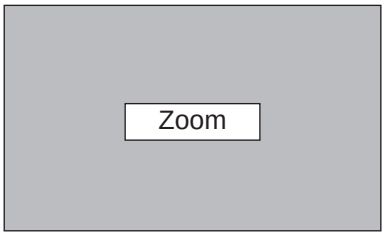
ADJUSTING THE IMAGE

ZOOM ADJUSTMENT

1 Press the ZOOM button on the Top Control or the ZOOM ▲/▼ button on the Remote Control Unit to turn into the ZOOM mode.

2 Press the POINT UP button or the ZOOM ▲ button to have the image larger, and press the POINT UP button or the ZOOM ▼ button to have the smaller.

In the Computer mode, the image can be expanded, compressed, and panned with the Digital Zoom function. Refer to page 29, 37 for the Digital Zoom operation.

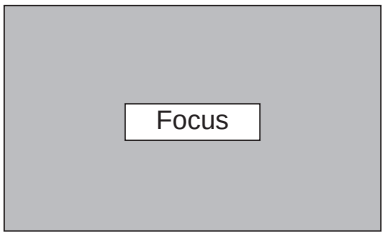


The message disappears after 4 seconds.

FOCUS ADJUSTMENT

1 Press the FOCUS button on the Top Control or the FOCUS ▲/▼ button on the Remote Control Unit to turn into the FOCUS mode.

2 Adjust the focus of the image by pressing the POINT UP/DOWN button or the FOCUS ▲/▼ button.



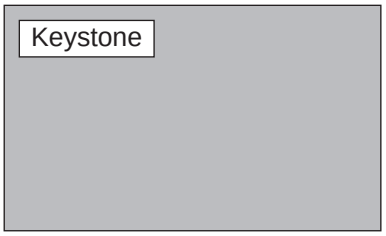
The message disappears after 4 seconds.

KEYSTONE ADJUSTMENT

If the picture obtained keystone distortion, correct screen with KEYSTONE adjustment.

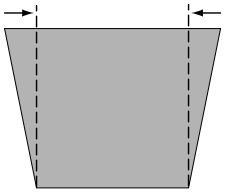
1 Press the KEYSTONE ▲/▼ button on the Remote Control Unit or select the Keystone on the SCREEN menu. (Refer to page 29, 30, 37.) The message “Keystone” is displayed.

2 Correct the Keystone distortion by pressing the KEYSTONE ▲/▼ button or the POINT UP/DOWN button(s). Press the KEYSTONE ▲ button or the POINT UP button to reduce the upper part or the image, and press the KEYSTONE ▼ button or the POINT DOWN button to reduce the lower part.

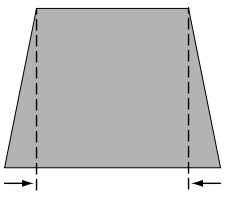


The message disappears after 4 seconds.

Reduce the upper width with the KEY STONE ▲ button or the POINT UP button.



Reduce the lower width with the KEY STONE ▼ button or the POINT DOWN button.



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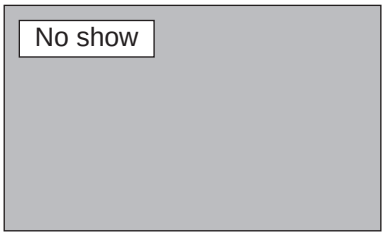
NO SHOW FUNCTION

Press the NO SHOW button on the Remote Control Unit to turn the picture into black image. This function is cancelled when the NO SHOW button is pressed again or any other function button is pressed.



The message disappears after 4 seconds.

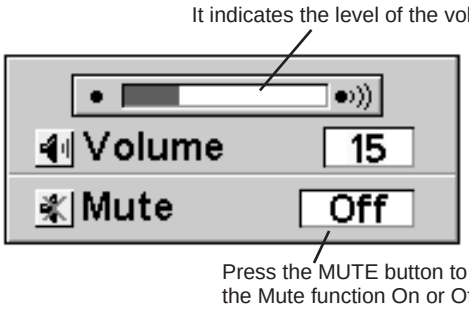
PICTURE FREEZE FUNCTION

Press the FREEZE button on the Remote Control Unit to freeze the picture on screen. This function is cancelled when the FREEZE button is pressed again or any other function button is pressed.

SOUND ADJUSTMENT

SOUND VOLUME ADJUSTMENT

Press the VOLUME (+/–) button(s) on the Top Control or on the Remote Control Unit to adjust the volume. The Volume dialog box appears on the screen for a few seconds.
The VOLUME (+) button to increase the volume, and The VOLUME (–) button for decreasing.



The display disappears after 4 seconds.

SOUND MUTE ADJUSTMENT

Press the MUTE button on the Remote Control Unit to cut off the sound. To restore the sound to its previous level, press again or press Volume button(s).

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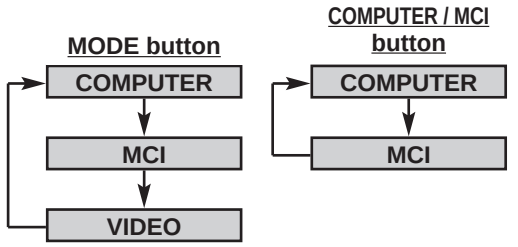
SELECTING COMPUTER MODE

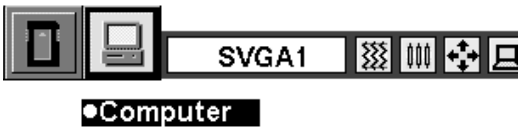
DIRECT OPERATION

Select COMPUTER mode by pressing the MODE button on the Top Control or the COMPUTER / MCI button on the Remote Control Unit.



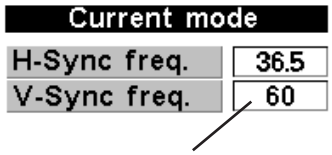
MENU OPERATION

Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select Computer and press the SELECT button.



CURRENT MODE DISPLAY

When selecting the Computer Mode, the Current Mode display appears. It shows the information of the computer of the mode selected.



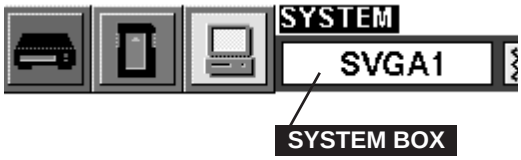
Providing the information of the computer detected by the projector.

SELECTING COMPUTER SYSTEM

AUTOMATIC MULTISCANNING SYSTEM

This projector automatically tunes to most different types of computer based on VGA, SVGA or XGA (refer to "COMPATIBLE COMPUTER SPECIFICATION" on page 26). When selecting Computer, this projector automatically tunes to the incoming signal and projects the proper image without any special setting. (Setting of the Computer System may be required when connecting some computers.)

Note : The projector may provides the messages below.



SYSTEM BOX

It displays the SYSTEM being selected.

Go to PC adj. The projector cannot discriminate or detect the input signal from the computer. Adjust and set the computer system manually. (Refer to page 24.)

No signal There is no signal input from the computer. Make sure the connection of the computer and the projector is set correctly. (Refer to TROUBLESHOOTING on page 44.)

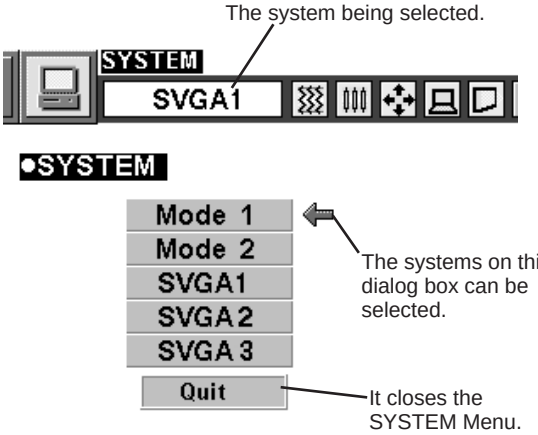
SELECT COMPUTER SYSTEM MANUALLY

To set the Computer system manually, select the mode on the ON-SCREEN MENU.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SYSTEM and press the SELECT button. Another dialog box COMPUTER MODE Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the system that you want to set, and then press SELECT button.

The system being selected.



The systems on this dialog box can be selected.

It closes the SYSTEM Menu.

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PC ADJUSTMENT

This Projector can automatically tune to the display signals from most personal computers currently distributed. However, some computers employ the special signal formats which are different from the standard ones and may not be tuned by Multiscanning of this projector. If this happens, the projector cannot reproduce a proper image and the image is recognized as a flickering picture, a non-synchronized picture, a non-centered picture or a skewed picture.
This projector has PC ADJUSTMENT function, to enable you to precisely adjust several parameters to match with those exceptional signal formats and the projector has five independent memory areas to memorize those parameters manually adjusted. This enables you to recall the setting for a specific computer whenever you use it.

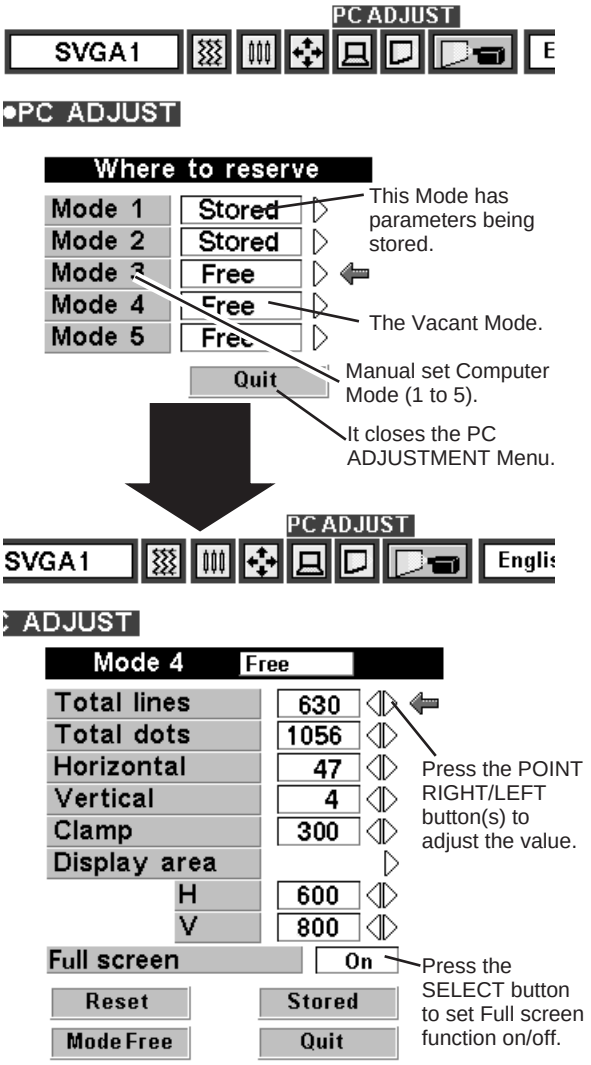
1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT RIGHT/LEFT buttons to select PC ADJUST and press the SELECT button. Another dialog box "Where to reserve" Menu will appear.

2 In this dialog box, you can store the parameter into the area from "Mode 1" to "Mode 5." When memorizing the new computer parameter, select the Mode with the message of "Free" by pressing the POINT UP/DOWN buttons and the SELECT button. To change the parameters of the Mode previously set, select the Mode with "Stored."

3 When the Mode is selected, Parameter adjustment dialog box appears. Move the arrow to the item that you want to change by pressing the POINT UP/DOWN buttons, and adjust the each item to match with your computer. To change the value, press either the POINT RIGHT button or the POINT LEFT button.
Refer to the next page for adjusting each item.

4 Move the arrow to "Stored" and press the SELECT button. The parameter is memorized in the selected Mode.

5 To activate the Mode manually adjusted in this PC ADJUSTMENT Menu, select the Mode at the SYSTEM SELECT Menu. (Refer to page 23.)



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Total lines

The number of the total vertical lines. Adjust the number to match the image of your personal computer.

Total dots

The number of the total dots in one horizontal period. Adjust the number to match the image of your personal computer.

Horizontal / Vertical

Adjustment of the horizontal or vertical |picture position. When the image is not centered on the screen, adjust each of those items.

Clamp

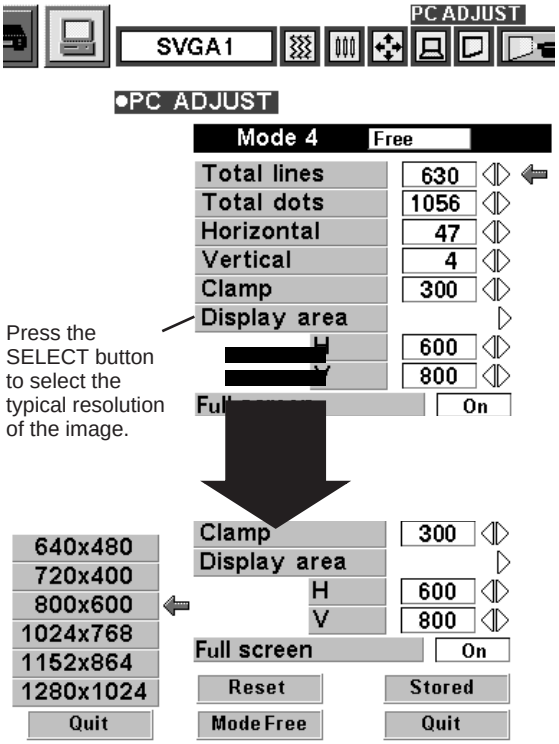
Adjustment of the clamp level. When the image has a dark bar(s), try this adjustment.

Display area

Adjustment of the area displayed with this projector. Select the resolution at the Display area dialog box, or adjust the number at the column of “H” or “V” to match the resolution of the image.

Full Screen

Set “On” to resize the image with 4 x 3 aspect ratio to fit the screen.



Each of the keys operates as follow.

Reset •••• Recalls the parameter data that previously adjusted.

Mode free •••• Clears the parameter data previously set in the selected Mode.

Stored •••• Stores the parameters in the memory.

Quit •••• Closes the PC ADJUST Menu.

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COMPATIBLE COMPUTER SPECIFICATIONS

Basically this projector can accept the signal from all computers with the V, H-Frequency below mentioned and less than 135 MHz of Dot Clock.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
VGA 1	640 x 480	31.47	59.88	SVGA 10	800 x 600	47.90	71.92
VGA 2	720 x 400	31.47	70.09	SVGA 11	800 x 600	32.70	51.09
VGA 3	640 x 400	31.47	70.09	SVGA 12	800 x 600	38.00	60.51
VGA 4	640 x 480	37.86	74.38	MAC1 6	832 x 624	49.72	74.55
VGA 5	640 x 480	37.86	72.81	XGA 1	1024 x 768	48.36	60.00
VGA 6	640 x 480	37.50	75.00	XGA 2	1024 x 768	68.677	84.997
MAC LC13	640 x 480	34.97	66.60	XGA 3	1024 x 768	60.023	75.03
MAC 13	640 x 480	35.00	66.67	XGA 4	1024 x 768	56.476	70.07
RGB	640 x 480 (Interlace)	15.734	30	XGA 5	1024 x 768	60.31	74.92
RGB	768 x 576 (Interlace)	15.625	25	XGA 6	1024 x 768	48.50	60.02
SVGA 1	800 x 600	35.156	56.25	XGA 7	1024 x 768	44.00	54.58
SVGA 2	800 x 600	37.88	60.32	XGA 8	1024 x 768	63.48	79.35
SVGA 3	800 x 600	46.875	75.00	XGA 9	1024 x 768 (Interlace)	36.00	43.59
SVGA 4	800 x 600	53.674	85.06	XGA 10	1024 x 768	62.04	77.07
SVGA 5	800 x 600	48.08	72.19	XGA 11	1024 x 768	61.00	75.70
SVGA 6	800 x 600	37.90	61.03	XGA 12	1024 x 768 (Interlace)	35.522	43.48
SVGA 7	800 x 600	34.50	55.38	XGA 13	1024 x 768	46.90	58.20
SVGA 8	800 x 600	38.00	60.51	XGA 14	1024 x 768	47.00	58.30
SVGA 9	800 x 600	38.60	60.31	MAC 19	1024 x 768	60.24	75.08

NOTE : Specifications are subject to change without notice.

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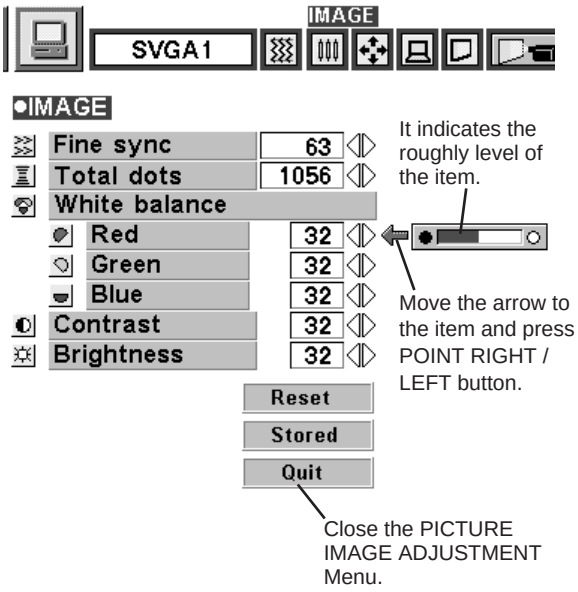
PICTURE IMAGE ADJUSTMENT

ADJUST PICTURE IMAGE MANUALLY

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select IMAGE and press the SELECT button. Another dialog box PICTURE IMAGE ADJUSTMENT Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the item that you want to change by pressing the POINT UP/DOWN buttons. To change the value, press either the POINT RIGHT button or the POINT LEFT button.



Fine sync.

Adjust the picture as necessary to eliminate flicker from the display. (From 0 to 255.)

Total dots

The number of the total dots in one horizontal period. Adjust the number to match your PC image.

White balance (Red / Green / Blue)

Move the arrow to Red, Green, or Blue that you want to adjust. Press POINT LEFT button to adjust the color of image lighter, and press POINT RIGHT button to adjust deeper. (From 0 to 63.)

Contrast

Press POINT LEFT button to adjust the image lighter, and press POINT RIGHT button to adjust deeper. (From 0 to 63.)

Brightness

Press POINT LEFT button to adjust the image darker, and press POINT RIGHT button to adjust brighter. (From 0 to 63.)

Each of the keys operates as follow.

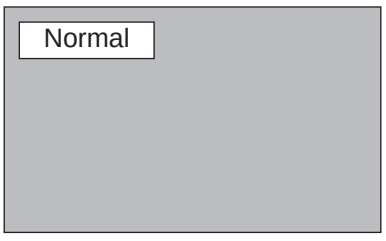
Reset •••• Recalls the data previously adjusted.

Stored •••• Stores the adjusted data in the memory.

Quit •••• Closes the PICTURE IMAGE ADJUSTMENT Menu.

NORMAL FUNCTION

The normal picture level is preset on this projector at the factory and can be restored anytime you press the NORMAL button (located on the Top Control or on the Remote Control Unit). The “Normal” display will be displayed on the screen for a few seconds.



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AUTO IMAGE FUNCTION

The Auto Image function is provided to automatically adjust Fine sync., Total dots, and Picture Position for most computers.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select AUTO IMAGE and press the SELECT button.
Another dialog box AUTO IMAGE Menu will appear.

2 Move the arrow to an item that you want to adjust by pressing the POINT UP/DOWN button. Change the setting On or Off by pressing the SELECT button.

Fine sync.
Adjust the picture as necessary to eliminate flicker from the display. This item can be adjusted manually. (Refer to page 27.)

Total dots
The number of the total dots in one horizontal period. This item can be adjusted manually. (Refer to page 27.)

Position
Adjustment of the position of the image. This item can be adjusted manually. (Refer to page 28.)

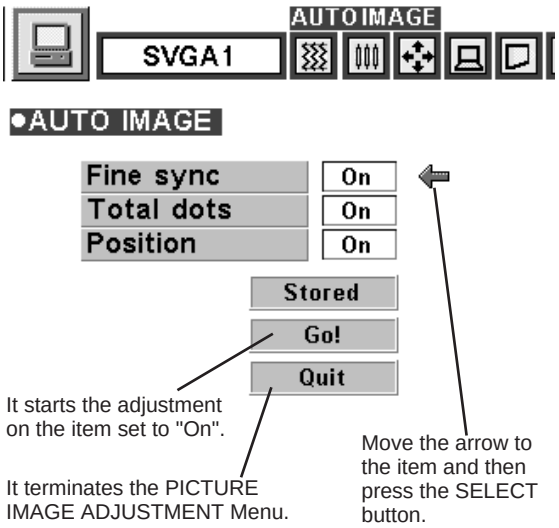
3 Move the arrow to “Go!” and press the SELECT button to start the Auto Image function.
This adjustment can be executed by pressing AUTO IMAGE button on the Top Control and the Remote Control Unit.

Stored •••• Stores the On/Off setting of each item.

Go! •••• Starts the Auto Image Adjustment.

Quit •••• Closes the AUTO IMAGE ADJUSTMENT Menu.

NOTE : The Fine sync., Total dots, and Picture Position of some computers may not be fully adjusted with the Auto Image Function. In that case, manual adjustment is required to make fine image. (Refer to page 27 to adjust "Fine sync." or "Total dots" and page 28 to adjust Picture Position.)



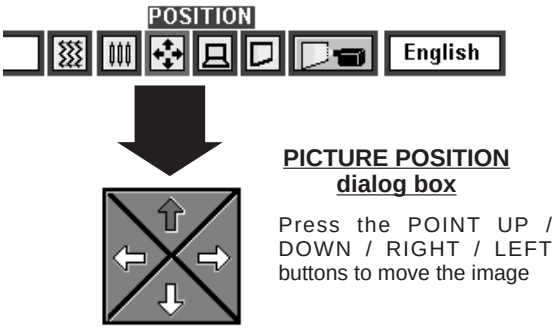
PICTURE POSITION ADJUSTMENT

The position of the image can be adjusted vertically and horizontally through PICTURE POSITION ADJUSTMENT.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select POSITION and press the SELECT button. The PICTURE POSITION dialog box will appear.

2 Move the image by pressing the POINT UP / DOWN / RIGHT / LEFT buttons.

To cancel POSITION mode, press the any buttons except SELECT, RIGHT CLICK, POINT, PAGE ▲/▼ or LASER button. To recall the position previously adjusted, press NORMAL button.



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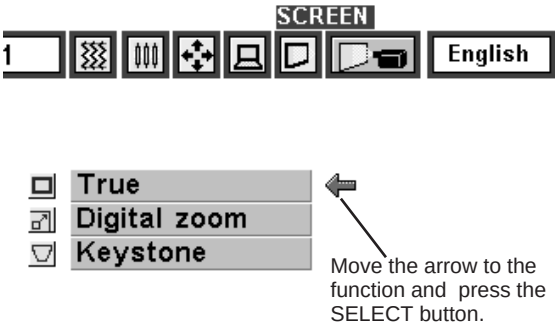
PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display the image in desirable size.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SCREEN and press the SELECT button. Another dialog box PICTURE SCREEN Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the function that you want to select and then press SELECT button.



True

To turn the image into its original size select True in the dialog box. When the original image size is larger than the screen size (800 x 600), this projector becomes Digital Zoom mode automatically.

Keystone

When the image is distorted vertically, select Keystone in the dialog box. The ON-SCREEN menu and SCREEN ADJUST menu disappears and the message “Keystone” is displayed. Correct the Keystone distortion by pressing the KEYSTONE ▲/▼ button or the POINT UP/DOWN button(s). Refer to KEYSTONE ADJUSTMENT on page 21.

Digital Zoom

To adjust the image size or pan the image, select Digital zoom in the dialog box. The ON-SCREEN menu and SCREEN ADJUST menu disappears and the message “D. Zoom” is displayed.
This projector is also turned into Digital Zoom mode by pressing the D.ZOOM ▲/▼ button on the Remote Control Unit.
Refer to the following for operation.

Expand function

To expand the image size, press the D.ZOOM ▲ button or the SELECT button.

Compress function

To compress the image size, press the D.ZOOM ▼ button or the RIGHT CLICK button. The size of image is reduced by degrees.

Panning function

To pan the image, press the POINT UP/DOWN/LEFT/RIGHT buttons. Panning function can work only when the image is larger than the screen size.

To cancel Digital Zoom mode, press the any buttons except D.ZOOM ▲/▼, SELECT, RIGHT CLICK, POINT, PAGE ▲/▼ or LASER button. To adjust the image to the screen size (800 x 600), press NORMAL button.

- This projector cannot display in the resolution higher than 1024 X 768. If your computer’s screen resolution is higher than 1024 X 768, reset the resolution to the lower before connecting the projector.
- The image data in other than SVGA (800 x 600) is modified to fit the screen size in the initial mode.
- The normal "Panning Operation" may not function properly if the computer system prepared with the "PC Adjust" is used.

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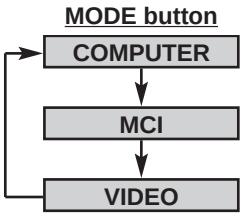
SELECTING VIDEO MODE

DIRECT OPERATION

Select VIDEO mode by pressing the MODE button on the Top Control or the VIDEO button on the Remote Control Unit.



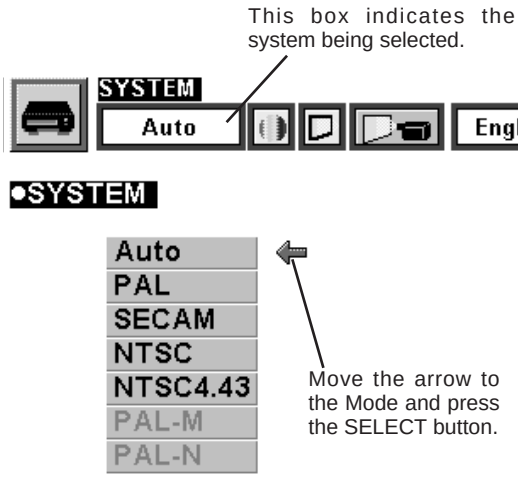
MENU OPERATION

Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select Video and press the SELECT button.

SELECTING COLOR SYSTEM

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SYSTEM and press the SELECT button. Another dialog box VIDEO SYSTEM Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to "Auto", and then press the SELECT button.



Auto

The projector automatically detects the incoming Video system, and adjusts itself to optimize its performance.
When the Video System is PAL-M or PAL-N, select the system manually.

PAL / SECAM / NTSC / NTSC4.43 / PAL-M / PAL-N

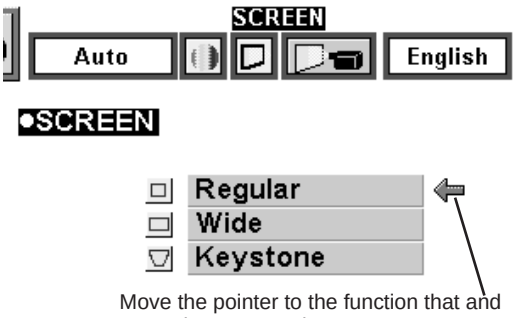
If the projector cannot reproduce the proper video image, it is required to select a specific broadcast signal format among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, or PAL-N.

PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display the image in desirable size.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SCREEN and press the SELECT button. Another dialog box PICTURE SCREEN ADJUSTMENT DISPLAY will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the screen size that you want to set, and then press the SELECT button.



Regular

Normal Video Image size with 4 x 3 aspect ratio.

Wide

Resizes the image for wide screen size with 16 x 9 aspect ratio.

Keystone

When the image is distorted vertically, select Keystone in the dialog box. Correct the Keystone distortion by pressing KEYSTONE ▲/▼ button or POINT UP/DOWN button(s). Refer to KEYSTONE ADJUSTMENT on page 21.

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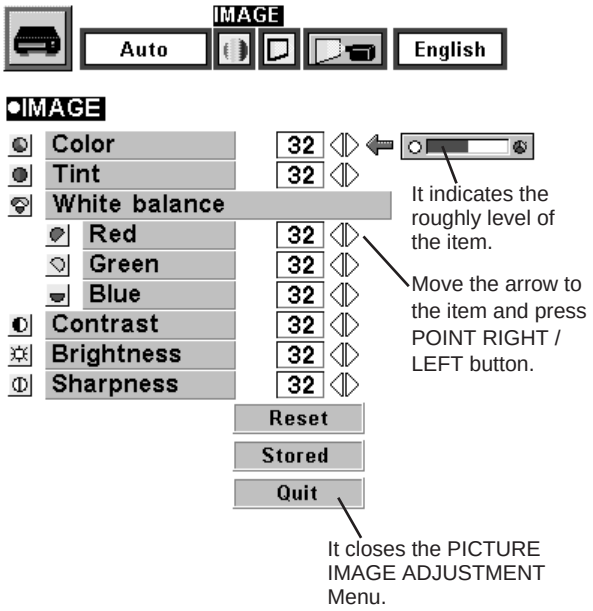
PICTURE IMAGE ADJUSTMENT

ADJUSTING THE PICTURE IMAGE

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select IMAGE and press the SELECT button. Another dialog box PICTURE IMAGE ADJUSTMENT Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the item that you want to adjust by pressing the POINT UP/DOWN buttons. To change the value, press either the POINT RIGHT button or the POINT LEFT button.



Color

Press POINT LEFT button to adjust the image lighter, and press POINT RIGHT button to adjust deeper. (From 0 to 63.)

Tint

Press POINT LEFT button to adjust the color more purple, and press POINT RIGHT button to adjust more green. (From 0 to 63.)

White balance (Red / Green / Blue)

Move the arrow to Red, Green, or Blue that you want to adjust. Press POINT LEFT button to adjust the color of image lighter, and press POINT RIGHT button to adjust deeper. (From 0 to 63.)

Contrast

Press POINT LEFT button to adjust the image lighter, and press POINT RIGHT button to adjust deeper. (From 0 to 63.)

Brightness

Press POINT LEFT button to adjust the image darker, and press POINT RIGHT button to adjust brighter. (From 0 to 63.)

Sharpness

Press POINT LEFT button to adjust the image softer, and press POINT RIGHT button to adjust sharper. (From 0 to 63.)

Each of the keys operates as follow.

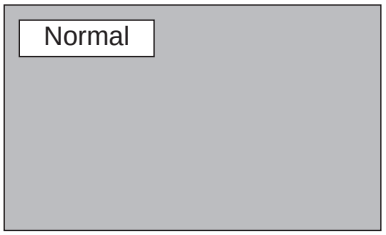
Reset .... Recalls the data previously adjusted.

Stored .... Stores the data in the memory.

Quit .... Closes the PICTURE IMAGE ADJUSTMENT Menu.

NORMAL FUNCTION

The normal picture level is preset on this projector at the factory and can be restored anytime you press the NORMAL button (located on the Top Control or on the Remote Control Unit). The "Normal" display will be displayed on the screen for a few seconds.



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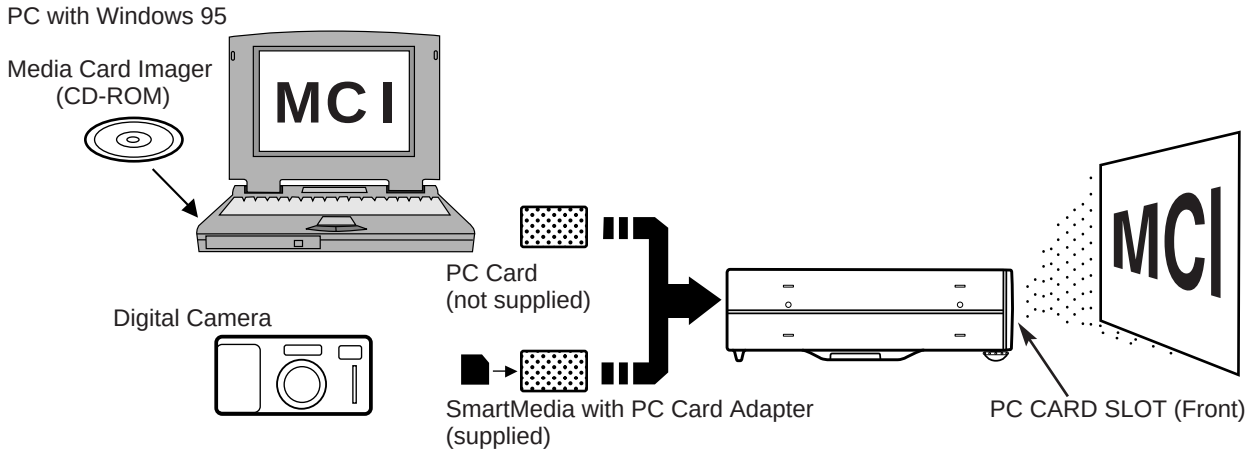
OPERATING THE PC CARD SLOT

This projector has PC CARD SLOT and the pictures in a memory card (SmartMedia with PC Card Adapter or PC card) can be displayed just by inserting the card into it. It is unnecessary to connect with other input equipment. Media Card Imager (supplied with CD-ROM) can edit the image data and record it into a memory card for projecting with the projector.

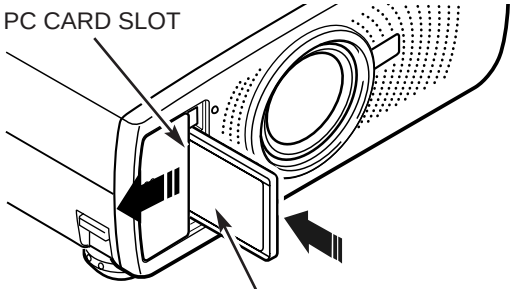


HOW TO LOAD THE MEMORY CARD INTO THE PROJECTOR

LOAD

Insert PC Card Adapter (with SmartMedia) or PC card into PC CARD SLOT. Make sure EJECT button pops out.

NOTE : Be sure to insert the memory card with the front side to the left side of the projector. Do not insert the card in the reverse. The card may be damaged.



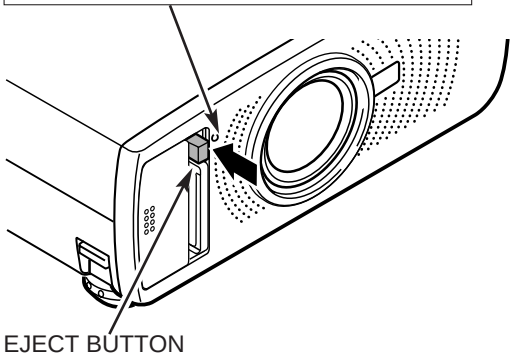
UNLOAD

Press EJECT button, and the memory card pops out.

NOTE : Do not take the card out while the PC CARD SLOT loading. Data and the card can be damaged.

PC CARD INDICATOR

WHEN THIS INDICATOR IS LIGHTING, THE PROJECTOR IS READING OR WRITING THE DATA INTO THE MEMORY CARD. DO NOT REMOVE THE MEMORY CARD. DATA IN THE MEMORY CARD MAY BE DAMAGED.



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AVAILABLE DATA

This projector can project the image data as follow through PC CARD SLOT.

- The data edited by “Media Card Imager.”
- The data of the resolution between VGA (640 X 480) and XGA (1024 X 768) in Bit Map type (BMP) or JPEG type (JPG), such as Digital Camera data, can be also displayed.
  (Some image data in XGA size may not be displayed properly. In that case, reset the resolution to the lower.)

Refer to “SHOW THE DATA IN THE MEMORY CARD” on page 34 to display the image data.

Media Card Imager

Media Card Imager (CD-ROM) is attached to this projector to edit the image data for projecting. Installation of Media Card Imager is recommended. Refer to Owner’s Manual of Media Card Imager for installation and operation.

AVAILABLE CARD

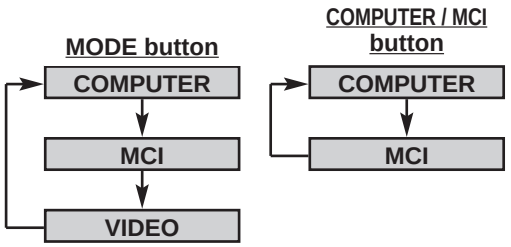
SmartMedia (with PC Card Adapter) or Type || PCMCIA-ATA Card can be used with this projector. (Those memory cards are supplied with this projector.)
Refer to SMARTMEDIA AND PC CARD ADAPTER on pages 38 and 39 for operation.
NOTE : Some PCMCIA Adapter or PC Card is not available for this projector and cannot provide the image data. In that case, use our SmartMedia and PC Card Adapter.

SELECTING MCI MODE

When the memory card is inserted into PC CARD SLOT, mode is automatically set to MCI mode and the first Page of the latest Index is projected on the screen. To turn Video/Computer mode to MCI mode manually, operate as follows.

DIRECT OPERATION

Select MCI mode by pressing the MODE button on the Top Control or the COMPUTER / MCI button on the Remote Control Unit.



MENU OPERATION

Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select MCI and press the SELECT button.

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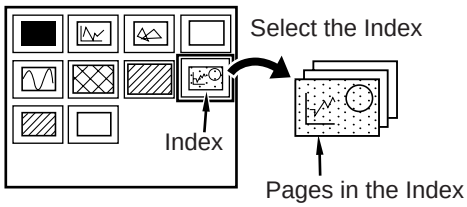
SHOW THE DATA IN THE MEMORY CARD

BASIC OPERATION

1 Insert the memory card and turn the projector into MCI mode. The image in the memory card is displayed.

2 To change the image to others, press the PAGE ▲ or ▼ button. (When the "Display Timer" is set in the image with the Media Card Imager, the image is changed to another automatically.)

To select Index or Page in the table, follow the instructions of INDEX SELECTION and PAGE SELECTION.



Index and Page

The data edited with Media Card Imager is the **Index** format consisting of several **Pages**. To project the desirable image, select the Index and then select the Page in the Index.

- This projector can project only the image data in Bit Map type or in JPEG type or the data edited by Media Card Imager (supplied) through the PC CARD SLOT. Other data is not available and should be edited and written in a memory card with Media Card Imager before loading PC CARD SLOT.

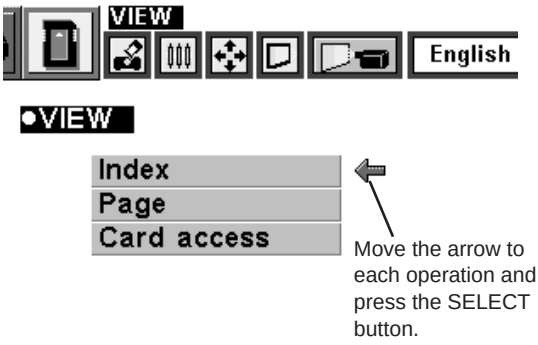
  (The data in Bit Map type or in JPEG type, such as the data captured with a digital camera, can be projected directly through PC CARD SLOT.)
- If there are the data edited by Media Card Imager and other data (such as in Bit Map type or JPEG type) together in one memory card, the data edited by Media Card Imager has a priority to be projected with the LCD projector. The other image data in Bit Map type or JPEG type is not projected. In that case, edit those data and write in the memory card with the Media Card Imager.

INDEX SELECTION

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select VIEW and press the SELECT button. Another dialog box VIEW SETTING menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to "Index", and then press the SELECT button. The table of Indexes in the memory card will appear.

3 Press the POINT UP/DOWN/LEFT/RIGHT buttons to move to the Index that you want to project and press the SELECT button. The first Page of the Index selected is displayed. (Press SELECT button again to display the table of Pages.)



PAGE SELECTION

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select VIEW and press the SELECT button. Another dialog box VIEW SETTING menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to "Page", and then press the SELECT button. The table of pages of the index card will appear.

3 Press the POINT UP/DOWN/LEFT/RIGHT buttons to move to the Page that you want to project and press the SELECT button. The page selected is displayed on the screen. The table of Pages can be displayed by pressing the SELECT button when the page is displayed on full screen.

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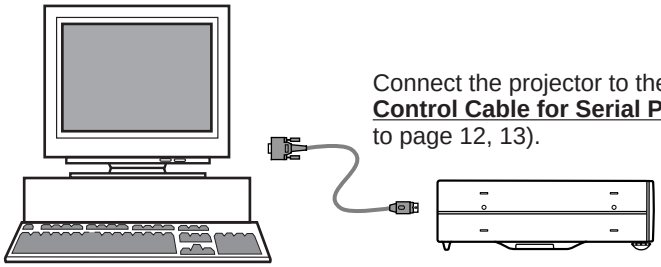
WRITE DATA INTO THE MEMORY CARD

The data edited by Media Card Imager in the computer can be written in or read from the memory card with the PC Card drive of your Personal Computer or the PC CARD Slot of this projector.
The data edited by Media Card Imager is written in Bit Map type (BMP) or JPEG type (JPG).

ACCESS TO THE MEMORY CARD THROUGH THE PROJECTOR

If your computer doesn't have the PC card writing equipment, the data can be written or read by connecting with this projector.
NOTE : This operation can be made only by Media Card Imager in the Personal Computer.



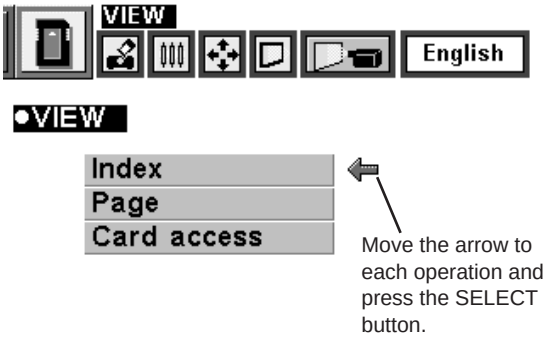
Connect the projector to the Personal Computer with the **Control Cable for Serial Port** (optionally supplied / refer to page 12, 13).

1 Connect the projector to your computer with the Control Cable for Serial Port (optionally supplied). (Refer to "CONNECTING COMPUTER" on Page 12, 13.)
Insert the memory card into PC CARD SLOT of the projector. And then, turn on the projector first and the computer.

2 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select View and press the SELECT button. Another dialog box VIEW SETTING Menu will appear.

3 Press POINT DOWN button and a red arrow appear. Move the arrow to Card access by pressing POINT UP/DOWN button. And then press SELECT button. "Ready to access" is displayed.
Operate Media Card Imager of your computer to write/read the data in the PC card. (Refer to Owner's Manual of Media Card Imager for operation.)

NOTE : Connect the projector to the computer with Control Cable before turning those appliances on.
Do not press any button while read/write the data through PC CARD Slot of the projector. Those operations are canceled and the data in the memory card may be damaged.



Move the arrow to each operation and press the SELECT button.

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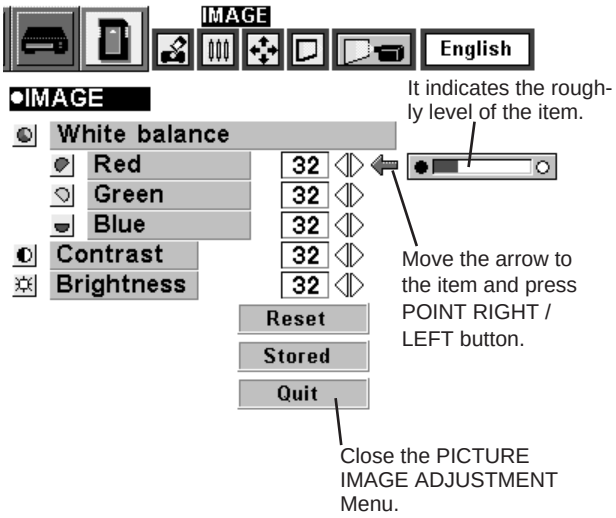
PICTURE IMAGE ADJUSTMENT

ADJUST THE PICTURE IMAGE MANUALLY

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select IMAGE and press the SELECT button. Another dialog box PICTURE IMAGE ADJUSTMENT Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the item by pressing the POINT UP/DOWN buttons. To change the value press either the POINT RIGHT button or the POINT LEFT button.



White balance (Red / Green / Blue)

Move the arrow to Red, Green, or Blue that you want to adjust. Press POINT LEFT button to adjust the color of image lighter, and press POINT RIGHT button to adjust deeper. (From 0 to 63.)

Contrast

Press POINT LEFT button to adjust the image lighter, and press POINT RIGHT button to adjust deeper. (From 0 to 63.)

Brightness

Press POINT LEFT button to adjust the image darker, and press POINT RIGHT button to adjust brighter. (From 0 to 63.)

Each of the keys operates as follow.

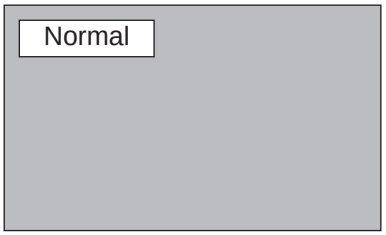
Reset •••• Recalls the data previously adjusted.

Stored •••• Stores the adjusted data in the memory.

Quit •••• Closes the PICTURE IMAGE ADJUSTMENT Menu.

NORMAL FUNCTION

The normal picture level is preset on this projector at the factory and can be restored anytime you press the NORMAL button (located on the Top Control or on the Remote Control Unit). The "Normal" display will be displayed on the screen for a few seconds.



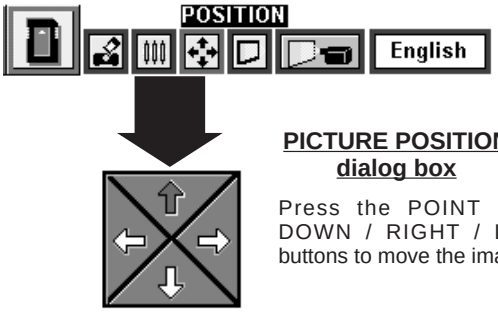
PICTURE POSITION ADJUSTMENT

The position of the image can be adjusted vertically and horizontally through PICTURE POSITION ADJUSTMENT.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select POSITION and press the SELECT button. The PICTURE POSITION dialog box will appear.

2 Move the image by pressing the POINT UP / DOWN / RIGHT / LEFT buttons.

To cancel POSITION mode, press the any buttons except SELECT, RIGHT CLICK, POINT, AUTO IMAGE, PAGE ▲/▼ or LASER button. To recall the position previously adjusted, press NORMAL button.



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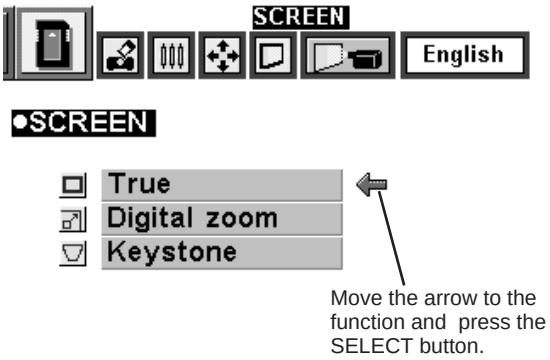
PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display the image in desirable size.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SCREEN and press the SELECT button. Another dialog box PICTURE SCREEN Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the function that you want to select and then press SELECT button.



True

To turn the image into its original size select True in the dialog box. When the original image size is larger than the screen size (800 x 600), this projector becomes Digital Zoom mode automatically.

Keystone

When the image is distorted vertically, select Keystone in the dialog box. The ON-SCREEN menu and SCREEN ADJUST menu disappears and the message “Keystone” is displayed. Correct the Keystone distortion by pressing KEYSTONE ▲/▼ button or POINT UP/DOWN button(s). Refer to KEYSTONE ADJUSTMENT on page 21.

Digital Zoom

To adjust the image size or pan the image, select Digital zoom in the dialog box. The ON-SCREEN menu and SCREEN ADJUST menu disappears and the message “D. Zoom” is displayed.
This projector is also turned into Digital Zoom mode by pressing D.ZOOM ▲/▼ button on the Remote Control Unit.
Refer to the following for operation.

Expand function

To expand the image size, press D.ZOOM ▲ button or SELECT button. The image is magnified by degrees.

Compress function

To compress the image size, press D.ZOOM ▼ button or RIGHT CLICK button. The size of image is reduced by degrees.

Panning function

To pan the image, press POINT UP/DOWN/LEFT/RIGHT buttons. Panning function can work only when the image is larger than the screen size.

To cancel Digital Zoom mode, press the any buttons except D.ZOOM ▲/▼, SELECT, RIGHT CLICK, POINT, PAGE ▲/▼, AUTO IMAGE, or LASER button. To adjust the image to the screen size (800 x 600), press NORMAL button.

- This projector cannot display in the resolution higher than 1024 X 768. If your computer’s screen resolution is higher than 1024 X 768, reset the resolution to the lower before connecting the projector.
- The image data in other than SVGA (800 x 600) is modified to fit the screen size in the initial mode.

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SMARTMEDIA AND PC CARD ADAPTER

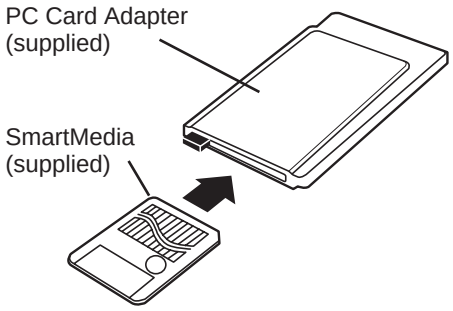
SmartMedia and PC Card Adapter are provided with this LCD projector. SmartMedia can be used as a PC card conforming to the PC Card Standard-ATA by combining with PC Card Adapter.

INSTALL / REMOVE THE SMARTMEDIA

INSTALL

Insert SmartMedia fully into PC Card Adapter. Make sure EJECT button pops out.

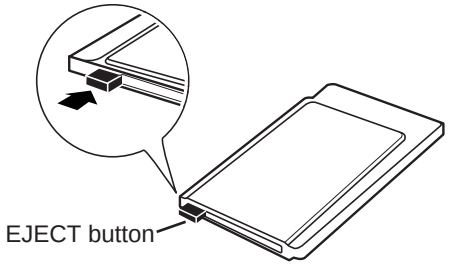
NOTE : The front side of SmartMedia has Contact Area on its surface.
The front side of PC Card Adapter has Eject button on the left side of the slot.
Do not insert SmartMedia in the reverse. The card and the data can be damaged.



REMOVE

To remove SmartMedia, fully press in the EJECT button. The card pops out, then take out the card.

NOTE : Do not pull SmartMedia by force. It may damage SmartMedia or PC Card Adapter.



IMPORTANT NOTE

THE DATA STORED ON THE MEMORY CARD (SMARTMEDIA OR PC CARD) MAY BE DAMAGED OR LOST BECAUSE OF THE DAMAGE OF THE MEMORY CARD OR THE ACCIDENTAL ERASURE. IT IS RECOMMENDED THAT ANY IMPORTANT DATA SHOULD BE COPIED ONTO SEPARATE MEDIA, SUCH AS A FLOPPY DISK, A HARD DISK, OR A MO DISK. WE SHALL NOT BE LIABLE FOR ANY DAMAGE OR LOSS OF PROFITS ARISING FROM THE LOSS OF DATA BECAUSE OF THE ACCIDENTAL OPERATION AND THE DAMAGE OF A MEMORY CARD OR APPLIANCES. REFER TO OWNER'S MANUAL OF MEDIA CARD IMAGER FOR OPERATING THE SOFTWARE.

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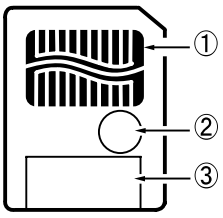
PRECAUTIONS AND SPECIFICATIONS OF THE SMARTMEDIA

- SmartMedia is a precision device. Do not bend it, drop it, subject it to strong forces or shocks or place where strong static electrical charge can be generated.
- Do not touch the surface of the Contact Area with fingers or allow it to be stained with foreign materials. Store SmartMedia inside its protective case when it is not used.
- SmartMedia is a consumable item. The data may not be written in or read from SmartMedia by using for a long time. In that case, replace SmartMedia with new one.

  Memory capacity : 8MB
  Operating voltage : 3.3 V DC
  Usage environment
  Temperature : 0~55 °C (during use)
  -20~65 °C (during storage)
  Humidity : less than 95% (during use, during storage)

CAUTION

Write Protect Sticker is not available for PC. When PC attempts to read the data from SmartMedia with Write Protect Sticker, it provides the error messages or the control of PC becomes insecure because of the property of the interface. When the error messages are displayed, press any key to return to the normal display. It is recommended, however, SmartMedia should be used on PC without Write Protect Sticker.



①Contact Area
Data is written in Contact Area. Never scratch or stain this area.
② Write Protect Area
Affix Write Protect Sticker onto Write Protect Area to prevent from accidental erasure.
③ Index Area
Affix Index Label onto Index Area.

PRECAUTIONS AND SPECIFICATIONS OF THE PC CARD ADAPTER

- Do not bend it, drop it, subject it to strong forces or shocks or place where strong static electrical charge can be generated.
- Do not insert materials other than SmartMedia. The adapter may be damaged. Store PC Card Adapter inside its protective case when it is not used.
- Do not shake the adapter, turn off the appliances, or remove SmartMedia from the PC Card Adapter during writing or reading data. It may damage the data in SmartMedia.

  Operating voltage : 5 V DC
  Usage environment
  Temperature : 0~55 °C (during use)
  -20~65 °C (during storage)
  Humidity : less than 95%
  (during use, during storage)

This adapter can be adapted to only our SmartMedia indicated below.

Available SmartMedia : 3.3V / 5V, 2MB / 4MB / 8MB /16MB

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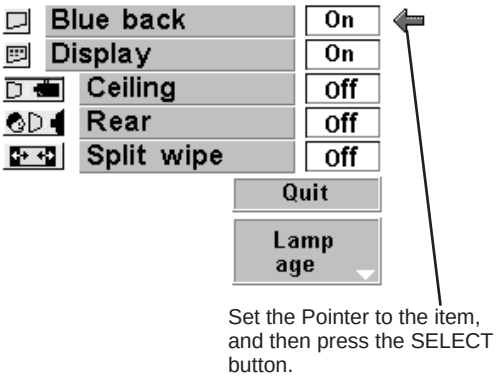
SETTING MENU

1 Press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SETTING and press the SELECT button. Another dialog box SETTING Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the item that you want to set, and then press the SELECT button to set it "On" or "Off".



Set the Pointer to the item, and then press the SELECT button.

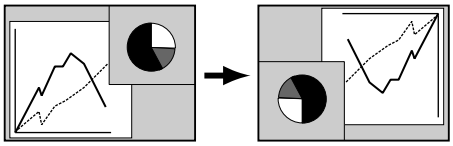
Blue back When this function is in the "On" position, this projector will produce a blue image instead of the video noise on the screen when all the input source is unplugged or turned off.

Display When this function is in the "On" position, the On-Screen Displays always appear when adjustments are made. (The following displays disappear by switching this function "Off.")

- Preparation Display
  (The Number-counting-down Display)
- Mode Display
- Volume/Mute Display
- Zoom Display
- Focus Display
- Normal Display
- No show Display
- Keystone Display
- D.Zoom Display

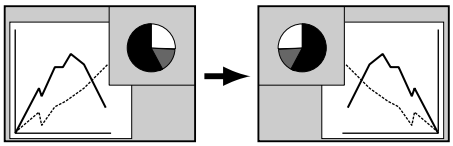
Ceiling When this function is in the “On” position, the top / bottom and the left / right reversed picture is provided to project the image from a ceiling mounted projector.

Ceiling function



Rear When this function is in the “On” position, the left / right reversed picture is provided to project the image to a rear projection screen.

Rear function



Split wipe Turn this function “On” position in the SETTING menu. The picture will change into next one by sliding black image side ways like drawing the black curtains when the input source is turned into another one.

Lamp age The Lamp age function is designed to reset the lamp replacement monitor timer. When replacing the lamp, reset the lamp replacement monitor timer by using this function. (Refer to page 43.)

SELECTING LANGUAGE

The language used in the ON-SCREEN MENU is selectable from among English, German, French, Italian, Spanish and Japanese.

1 Press the MENU button and the ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to select LANGUAGE and press the SELECT button. Another dialog box LANGUAGE Menu will appear.

2 Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to the language that you want to set, and then press the SELECT button.

Move the Pointer to the language that you want to set, and then press the SELECT button.

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OPERATING WIRELESS MOUSE

The Wireless Remote Control Unit is not only able to operate the projector but also usable as a wireless mouse for most Personal Computers. The POINT buttons and the two CLICK buttons are used for the wireless mouse operation.
The wireless mouse is usable when PC mouse pointer is displayed on the screen. When the menu or the indicator of the projector is displayed on the screen instead of the PC mouse pointer, the wireless mouse cannot be used.

INSTALLATION

To use the Wireless Remote Control Unit as the Wireless Mouse for a Personal Computer, installation of the mouse driver (not supplied) is required. Make sure that the mouse driver is properly installed in your computer. And make sure that the mouse port of the computer connected to Control Port is activated.

1. Connect the mouse port of your computer to the Control Port of the projector with the Control Cable. (Refer to page 10 to 13 for connection.)
2. Turn the projector on first, and then turn on your computer. When the computer is switched on first, the Wireless Mouse may not work properly.

Note : When the computer has no mouse port, connect the Serial Port of the computer to Control Port of the projector with the Control Cable for Serial Port.

OPERATING WIRELESS MOUSE

When controlling the pointer of the computer, operate the Wireless Mouse with POINT button, SELECT button, and RIGHT CLICK button on the Wireless Remote Control Unit.

POINT button

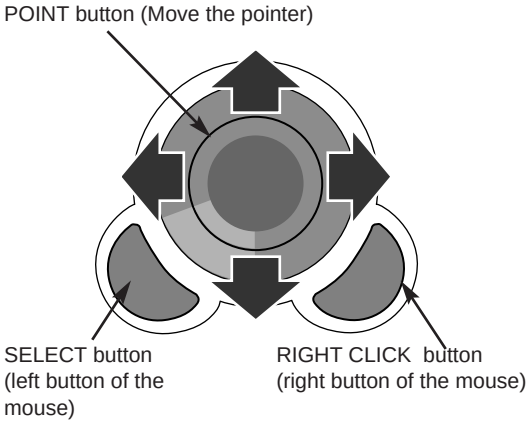
Used to move the pointer. The pointer is moved corresponding with the direction you are pressing.

SELECT (LEFT CLICK) button

This button has the same function as the left button in a PC mouse.

RIGHT CLICK button

This button has the same function as the right button in a PC mouse. Pressing this button does not affect any operation when in Menu mode.



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MAINTENANCE

TEMPERATURE WARNING INDICATOR

The TEMPERATURE WARNING Indicator flashes red when the internal temperature of the projector exceeds the normal temperature. The Indicator stops flashing when the temperature of the projector become normal. When the TEMPERATURE WARNING Indicator continues to flash, check the item listed below.

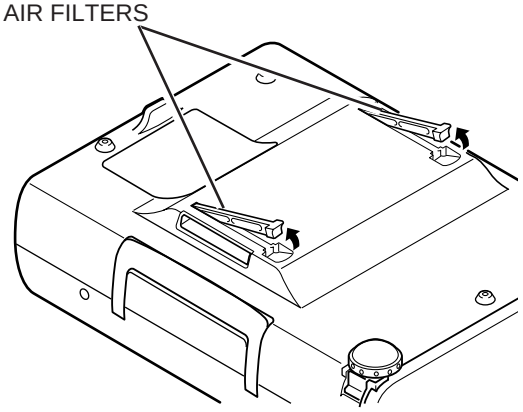
1. The Ventilation slots of the projector may be blocked. In such an event, reposition the appliance so that the ventilation slots are not obstructed.
2. Air filters are clogged with dust particles. Clean the air filters by following AIR FILTER CARE AND CLEANING below.
3. If the TEMPERATURE WARNING Indicator remains on after performing the above checks, the Cooling Fans or the Internal Circuits may be malfunctioning. In that case, call the Boxlight.

AIR FILTER CARE AND CLEANING

The Removable Air Filters prevent dust from accumulating on the surface of the Projection Lens and the Projection Mirror. Should the Air Filters become clogged with dust particles, it will reduce the Cooling Fans' effectiveness and may result in internal heat build up and adversely affect on the life of the projector.
Clean the Air Filters following the steps below:

1. Turn the power off, and disconnect the AC power cord from the AC outlet.
2. Turn the projector upside down and remove 2 Air Filters by pulling the latches of them upward.
3. Clean the Air Filters with brush or wash out the dust and particles.
4. Replace the Air Filter. Make sure that the Air Filters are fully inserted.

AIR FILTERS



CAUTION

Do not operate the projector with the Air Filter removed. The dust is stuck on the LCD Panel and the Mirror, and it may spoil the fine picture image.
Do not put the small parts into the Air Intake Vents. It result in the malfunction of the projector.
The Air Filter is small part. Take care that children don't eat or swallow it.

RECOMMENDATION

We recommend to avoid dusty/smoky place for operating the projector. Using in dusty place may cause the picture of poor quality.

When using under the dusty or smoky conditions, dust may accumulate on the liquid crystal panel and lens inside it, and may resultantly be projected on the screen together with the picture.
When the above symptoms are noticed contact Boxlight at 1-800-762-5757 or 360-779-7901 for cleaning.

CLEANING THE PROJECTION LENS

Follow these steps to clean the projection lens:

1. Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch the lens.
2. Lightly wipe the cleaning cloth over the lens.
3. When you don't use the projector, replace the lens cover.

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LAMP REPLACEMENT INDICATOR

When the life of the Lamp of this projector draws to an end, the LAMP REPLACEMENT indicator lights red. When the image becomes dark or the color of the image become unnatural, replacement of the Lamp is required.

LAMP REPLACEMENT

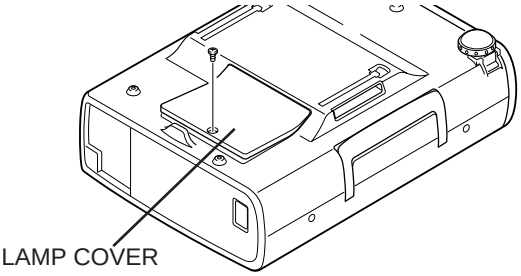
CAUTION

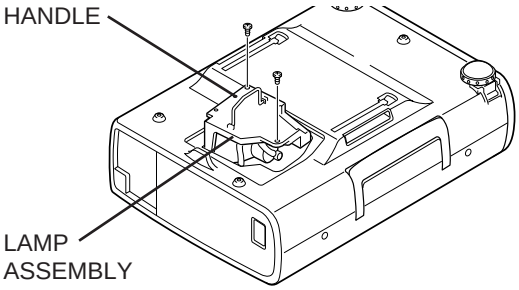
- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp assembly or touch the glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp assembly.

1. Turn off the projector and disconnect the AC plug. Allow the projector to cool for at least 45 minutes.
2. Remove a screw with a screwdriver and remove the Lamp Cover.
3. Remove 2 screws with a screwdriver and pull out the Lamp Assembly by grasping the handle.
4. Replace the Lamp Assembly with new one and tighten 2 screws. Make sure that the Lamp Assembly is set properly. And replace the Lamp Cover and tighten a screw.
5. Connect the AC Power Cord to the projector and turn the projector on.
6. Reset the Lamp Replacement Monitor Timer (refer to the section “Lamp Replacement Monitor Timer” below).

NOTE : Do not reset the LAMP REPLACEMENT MONITOR TIMER, when the lamp is not replaced.





ORDER REPLACEMENT LAMP

Replacement Lamp can be ordered through Boxlight at 1-800-762-5757 or 360-779-7901.

- Model No. of your projector : BOXLIGHT CP-13t
- Replacement Lamp Type No. : POA-LMP21J
  (Service Parts No. 610 280 6939)

LAMP REPLACEMENT MONITOR TIMER

Be sure to reset the Lamp Replacement Monitor Timer when the Lamp Assembly is replaced. When the Lamp Replacement Monitor Timer is reset, the LAMP REPLACEMENT indicator stops lighting.

1. Turn the projector on, and press the MENU button and the ON-SCREEN MENU will appear. Press the POINT LEFT/RIGHT buttons to select SETTING and press the SELECT button (refer to the page 40). Another dialog box SETTING MENU will appear.
2. Press the POINT DOWN button and a red-arrow icon will appear. Move the arrow to Lamp age, and then press the SELECT button. The message "Lamp replace monitor Reset?" is displayed.
3. Select [Yes] to reset the Timer.

Do not reset the Lamp Replacement Monitor Timer, except after the lamp is replaced.

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TROUBLESHOOTING

Before calling your dealer or service station for assistance, check the matters below once again.

1. Make sure you have connected the projector to your equipment a s described in section "CONNECTING THE PROJECTOR" on pages 10 ~ 13.
2. Check cable connection. Verify that all computer, video and power cord are properly connected.
3. Verify that all power is switched on.
4. If the projector still does not produce the image, re-start the computer.
5. If the image sill does not appear, unplug the projector from the computer and check the computer monitor's display. The problem may be with your graphics controller rather than with the projector. (When you reconnect the projector, remember to turn the computer and monitor off before your power up the projector. Power the equipment back in order of : Projector and computer.)
6. If the problem still exists, check with following chart.

Problem:	Try these Solution
No power.	● Plug the projector into the AC outlet. ● Be sure READY Indicator light is On. ● Wait 90 seconds after the projector is turned OFF before turning the projector back on. NOTE : After pressing the power ON-OFF switch to OFF, make sure the projector works as follow. 1. The LAMP indicator will light and the READY indicator will turn off. 2. After 90 seconds, the READY indicator will light green again and the projector may be turned on by pressing the power ON-OFF button. ● Check the TEMPERATURE WARNING indicator. If the indicator flashes red, the projector cannot be turned on. (See "TURNING ON/OFF THE PROJECTOR" section on page 20.) ● Check the Projection Lamp. (Refer to the page 43.)
Image is out of focus.	● Adjust the focus ● Make sure the projection screen is at least 4.6' (1.4m) from the projector. ● Check the projection lens to see if it needs cleaning. NOTE : Moving the projector from a cool temperature location to a warm temperature location may result in moisture condensation on the lens. In such an event, leave the projector OFF an d wait until condensation disappears.
Picture is Left/Right reversed.	● Check Ceiling / Rear feature. (See "SETTING" section on page 40.)
Picture is Top/Bottom reversed.	● Check Ceiling feature. (See "SETTING" section on page 40.)
Some displays are not seen during the Operation.	● Check Display feature.(See "SETTING" section on page 40.)
No image.	● Check the connection between the computer or video equipment and the projector. ● When turning the projector on, it is about 30 seconds to display the image. ● Check the system that you select is corresponding with the computer or the video equipment. ● Make sure the temperature is not out of the Operating Temperature (5°C ~ 35°C).
No sound.	● Check audio cable connection from audio input source. ● Adjust the audio source. ● Press VOLUME (+) button. ● Press MUTE button.

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Problem:	Try these Solution
Remote Control Unit does not work.	● Check the batteries. ● Check the ALL-OFF switch on the Remote Control Unit is set to “ON.”. ● Make sure anything is blocking between the Remote Receiver and the Remote Control Unit. ● Make sure you are not too far from the projector when using the Remote Control Unit. Maximum operating range is 16.4’ (5m).
Wireless Mouse function does not work.	● Check the cable connection between the projector and the computer. ● Check the mouse setting on your computer. ● Turn the projector before your turn on the computer.
The image data in memory card isn’t displayed.	● Check the memory card is inserted properly into PC CARD SLOT. ● Check SmartMedia or PC Card Adapter is set properly. ● Check MCI mode is selected. ● Check the image data is recorded in the memory card properly. ● Start the projector again.
The image data can’t be written in, read from the memory card.	● Check the projector is turned on. ● Check “Card access” in VIEW menu is selected. ● Check Control Cable for Serial Port (optional) is connected properly. ● Check the memory card is inserted properly into PC CARD SLOT. ● Check Media Card Imager (supplied) is installed in your computer properly. ● Check the setting in Media Card Imager (like Serial Port Setting) is set properly.

WARNING :
High voltages are used to operate this projector. Do not attempt to open the cabinet.

Boxlight Service is easily obtained. If after all operating instructions above, you find that service is necessary, contact Boxlight for assistance at 1-800-762-5757 or 360-779-7901.
Give the model number and explain the difficulty. We will advise you how to obtain service.

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TECHNICAL SPECIFICATIONS

Projector Type	Multi-media Projector
Dimensions (W x H x D)	9.41" x 3.54" x 12.72" (239mm x 90mm x 323mm) (not including Adjustable Feet)
Net Weight	8.82 lbs (4.0 kg)
LCD Panel System	0.9" TFT Active Matrix type, 3 panels
Panel Resolution	800 x 600 dots
Number of Pixels	1,440,000 (800 x 600 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N
Scanning Frequency	H-sync. 15 ~ 80 KHz, V-sync. 50 ~ 100 Hz
Projection Image size (Diagonal)	Adjustable from 30" to 300"
Horizontal Resolution	750 TV lines
Projection Lens	F 1.7 ~ 2.0 lens with f 33.2mm ~ 43.1mm Motor zoom and focus
Throw Distance	4.6' ~ 35.4' (1.4 m ~ 10.8 m)
Projection Lamp	150 W
AV Input Jacks	RCA Type x 1 (Video, Audio R and L) and Mini DIN 4 pin (S-Video) x 1
Computer Input Jacks	(VGA) HDB 15 Terminal x 1
Control Port Jack	Mini DIN 8 pin x 1
Monitor Output Jack	(VGA) HDB 15 Terminal x 1
Computer Audio Input Jack	Mini Jack (stereo)
Audio Output Jack	Mini Jack (stereo)
Internal Audio Amp	1W RMS (Monaural)
Built-in Speaker	1 speaker, 1.57" x 1.18" (40mm x 30mm)
Feet Adjustment	0˚ to 10˚
Voltage	AC 100 ~ 120 V / 200 - 240 V, 50 / 60 Hz
Power Consumption	2.5 A / 1.4 A (Max. Ampere)
Operating Temperature	41 ˚F ~ 95 ˚F (5 ˚C ~ 35 ˚C)
Storage Temperature	14 ˚F ~ 140 ˚F (-10 ˚C ~ 60 ˚C)
Remote Control Transmitter	Power Source : AA,UM3 or R06 Type x 2 Operating Range : 16.4' (5m) / ±30˚ Dimensions : 2.2" x 1.3" x 7.6" (55mm x 34mm x 192mm) Net Weight : 0.35 lbs (160 g) (including batteries) Laser Pointer : Class II Laser (Max. Output : 1mW / Wave length : 650±20nm)
Accessories	Owner's Manual AC Power Cord Remote Control Transmitter and Batteries VGA Cable Control Cable for PS/2 port Media Card Imager for Windows 95 (CD-ROM) and Owner's Manual for this software SmartMedia and PC Card Adapter Dust Cover Lens Cover

● The specifications are subject to change without notice.

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

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OPTIONAL PARTS

The parts listed below are optionally supplied. When ordering those parts, give the name and the Type No. of it to the sales dealer.

- Control Cable for Serial Port Type No. : POA-MCSRL
- Control Cable for ADB Port Type No. : POA-MCMAC
- MAC Adapter Type No. : POA-MACAP

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LIMITED WARRANTY

BOXLIGHT CORPORATION (“BOXLIGHT”) warrants that each Boxlight CP-13t (“the Product”) sold hereunder will conform to and function in accordance with the written specifications of BOXLIGHT. Said limited warranty shall apply only to the first person or entity that purchases the Product for personal or business use and not for the purpose of distribution resale. Said warranty shall continue for a period of two (2) years from the date of such purchase. BOXLIGHT does not warrant that the Product will meet the specific requirements of the first person or entity that purchases the Product for personal or business use. Lamp is warrantied for 120 days.

BOXLIGHT CORPORATION’s liability for the breach of the foregoing limited warranty is limited to the repair or replacement of the Product or refund of the purchase price of the Product, at BOXLIGHT’s sole option. To exercise the Purchaser’s rights under the foregoing warranty, the Product must be returned at the Purchaser’s sole cost and expense, to BOXLIGHT or any authorized service center provided, however, that the Product must be accompanied by a written letter explaining the problem and which includes (i) proof of purchase; (ii) the dealer’s name; (iii) the model and serial number of the Product. A return authorization number, issued by the BOXLIGHT customer service department, must also be clearly displayed on the outside of the shipping carton containing the Product.

WARRANTY LIMITATION AND EXCLUSION

BOXLIGHT CORPORATION shall have not further obligation under the foregoing limited warranty if the Product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modification, tampering, alterations, or service other than by BOXLIGHT or its authorized agents, causes other than from ordinary use or failure to properly use the Product in the application for which said Product is intended.

DISCLAIMER OR UNSTATED WARRANTIES

The warranty printed above is the only warranty applicable to this purchase.
All other warranties express or implied, including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose are disclaimed. There are no warranties that extend beyond the face of hereof and the foregoing warranty shall not be extended, altered or varied except by written instrument signed by BOXLIGHT CORPORATION.

LIMITATION OR LIABILITY

It is understood and agreed that BOXLIGHT’s liability whether in contract, in tort, under any warranty, in negligence or otherwise shall not exceed the return of the amount of the purchase price paid by purchaser and under no circumstances shall BOXLIGHT be liable for special, indirect or consequential damages. The price stated for the Product is a consideration in limiting BOXLIGHT’s liability. No action regardless of form, arising out of the agreement to purchase the product, may be brought by purchaser more than one year after the cause of action has accrued.

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